

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

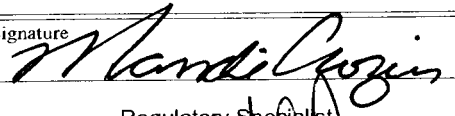
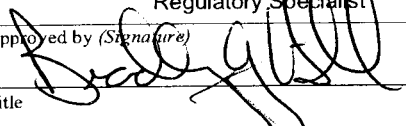
FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-30096
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Wells Draw
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Wells Draw Federal M-5-9-16
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-33249
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SE/NW 2033' FNL 1816' FWL At proposed prod. zone 2642' FNL 2646' FWL		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximately 11.0 miles southwest of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 5, T9S R16E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 2' f/lse, 1318' f/unit	16. No. of Acres in lease 602.24	17. Spacing Unit dedicated to this well 20 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1419'	19. Proposed Depth 6378'	20. BLM/BIA Bond No. on file UTB000192
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5786' GL	22. Approximate date work will start* 4th Quarter 2006	23. Estimated duration Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 7/25/06
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL	Date 08-14-06
Title Environmental Manager		

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

Surf

572876X

4434 732Y

40. 061625

- 110. 145508

Federal Approval of this  
Action is Necessary

BAL

573130X

4434554Y

40. 059015

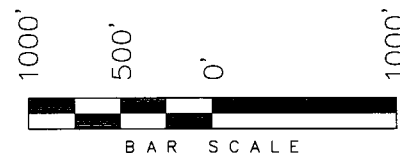
- 110. 145508

JUL 26 2006

# T9S, R16E, S.L.B.&M.

## NEWFIELD PRODUCTION COMPANY

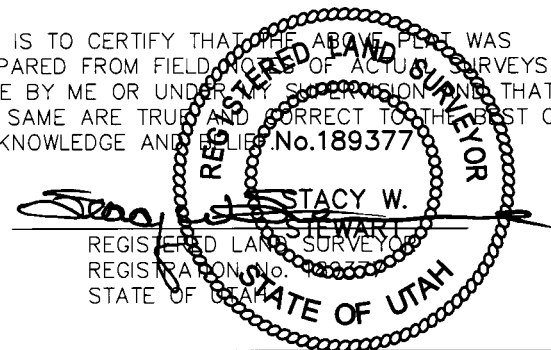
WELL LOCATION, WELLS DRAW M-5-9-16,  
LOCATED AS SHOWN IN THE SE 1/4 NW  
1/4 OF SECTION 5, T9S, R16E, S.L.B.&M.  
DUCHESE COUNTY, UTAH.



### Note:

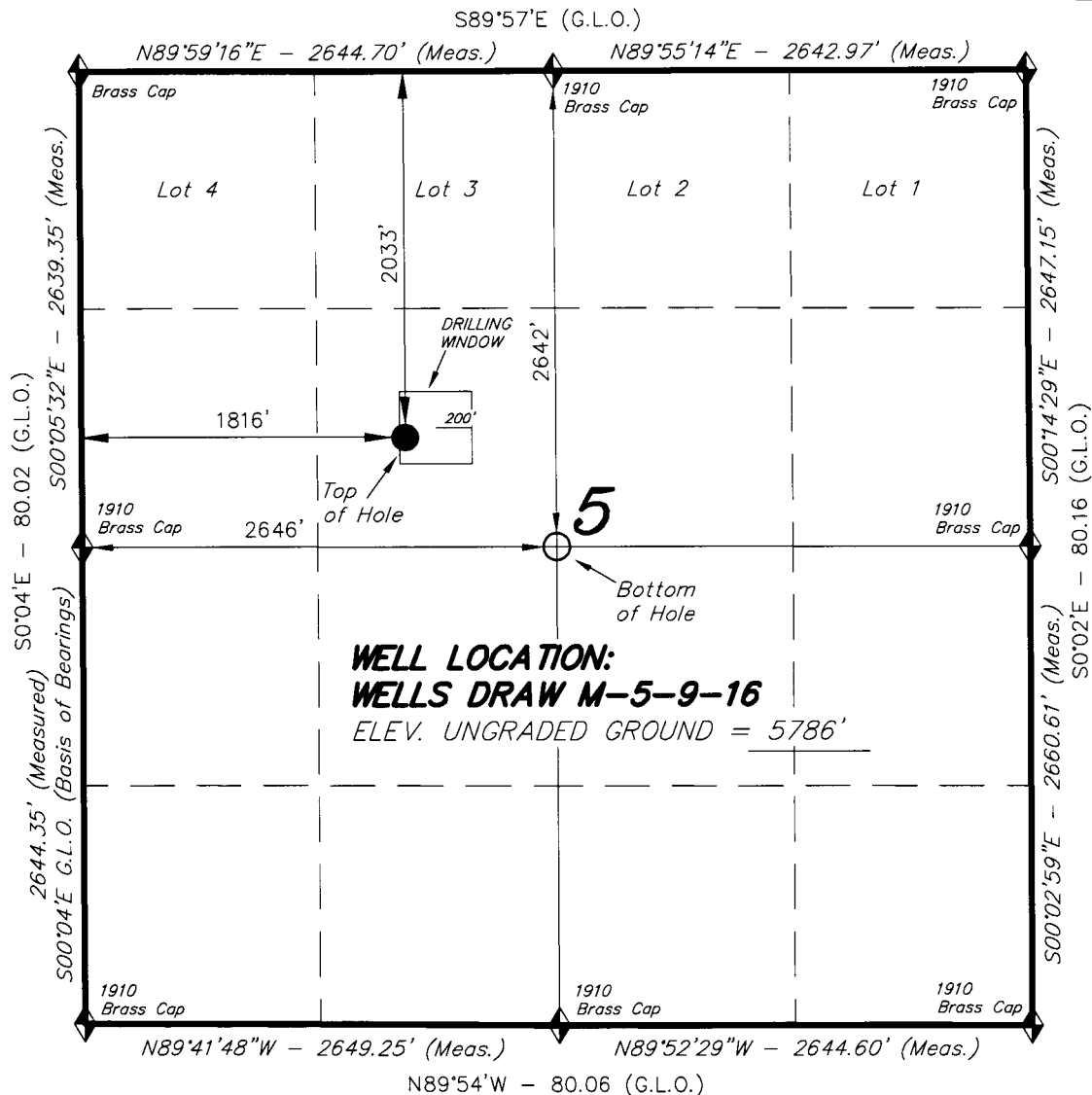
1. The bottom of hole bears S53°49'03"E 1029.93' from the well head.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377



**TRI STATE LAND SURVEYING & CONSULTING**  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

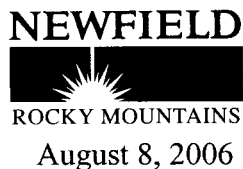
DATE SURVEYED: 5-18-06	SURVEYED BY: C.M.
DATE DRAWN: 5-19-06	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SW)

**WELLS DRAW M-5-9-16**  
(Surface Location) NAD 83  
LATITUDE = 40° 03' 41.78"  
LONGITUDE = 110° 08' 46.47"



Ms. Diana Whitney  
State of Utah, Div. of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11; Wells Draw Unit UTU-72613A  
Federal Lease #UTU-30096, Duchesne Co., UT  
Federal M-5-9-16; 2033' FNL, 1816' FWL (at surface)  
2642' FNL, 2646' FWL (bottomhole)  
Section 5-T9S-R16E

Dear Ms. Whitney:

Pursuant to the filing of Newfield Production Company's (hereinafter "NPC") Application for Permit to Drill dated 7/25/06 (copies enclosed herewith) which concerns the well referenced above, NPC is hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

This drillsite location is located within the boundaries of the Wells Draw Unit UTU-72613A. NPC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, NPC will be able to utilize the existing the existing road and pipelines in the area.

Furthermore, NPC hereby certifies that NPC is the Wells Draw Unit Operator and all lands within 460 feet of the entire directional well bore are within the Wells Draw Unit.

Therefore, based on the above stated information NPC requests that the permit be granted pursuant to R649-3-11. Thank you for your consideration in this matter.

Sincerely,

Newfield Production Company

Rhonda Deimer  
Land Associate

Enclosures

**RECEIVED**  
**AUG 11 2006**  
DIV. OF OIL, GAS & MINING

Form 3160-3  
(September 2001)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.

UTU-30086

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA Agreement, Name and No.  
Wells Draw8. Lease Name and Well No.  
Wells Draw Federal M-5-9-16

9. API Well No.

1a. Type of Work: ☒ DRILL☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Newfield Production Company

3a. Address

Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)

(435) 646-3721

10. Field and Pool, or Exploratory  
Monument Butte

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface SE/NW 2033' FNL 1816' FWL

At proposed prod. zone 2642' FNL 2646' FWL

11. Sec., T., R., M., or Blk. and Survey or Area

Sec. 5, T9S R16E

14. Distance in miles and direction from nearest town or post office\*

Approximately 11.0 miles southwest of Myton, Utah

12. County or Parish

Duchesne

13. State

UT

15. Distance from proposed\*  
location to nearest  
property or lease line, ft.  
(Also to nearest drig. unit line, if any)

Approx. 2' f/lse, 1318' flunit

16. No. of Acres in lease

602.24

17. Spacing Unit dedicated to this well

20 Acres

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.

Approx. 1419'

19. Proposed Depth

6378'

20. BLM/BIA Bond No. on file

UTB000192

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5786' GL

22. Approximate date work will start\*

4th Quarter 2006

23. Estimated duration

Approximately seven (7) days from start to rig release.

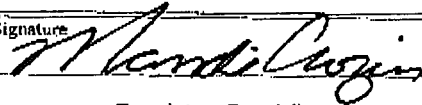
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The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature



Name (Printed/Typed)

Mandie Crozier

Date

7/25/06

Title

Regulatory Specialist

Approved by (Signature)

Name (Printed/Typed)

Date

Title

Office

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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RECEIVED

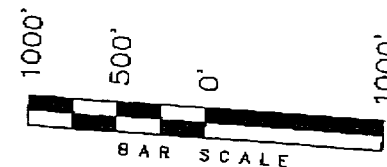
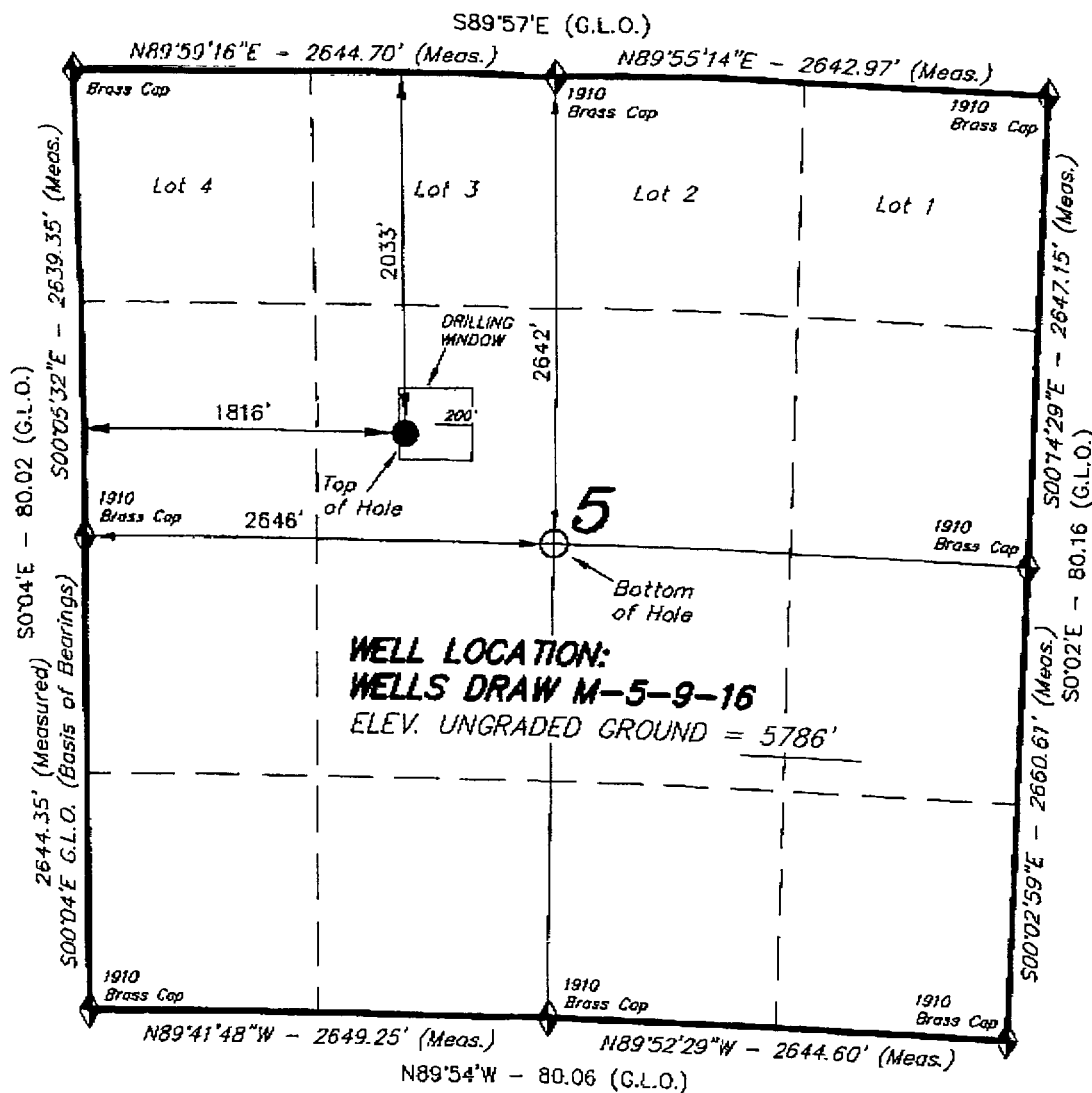
AUG 11 2006

DIV. OF OIL, GAS &amp; MINING

# T9S, R16E, S.L.B.&M.

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, WELLS DRAW M-5-9-16,  
LOCATED AS SHOWN IN THE SE 1/4 NW  
1/4 OF SECTION 5, T9S, R16E, S.L.B.&M.  
DUCHESE COUNTY, UTAH.



Note:  
1. The bottom of hole bears S53°49'03"E  
1029.93' from the well head.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
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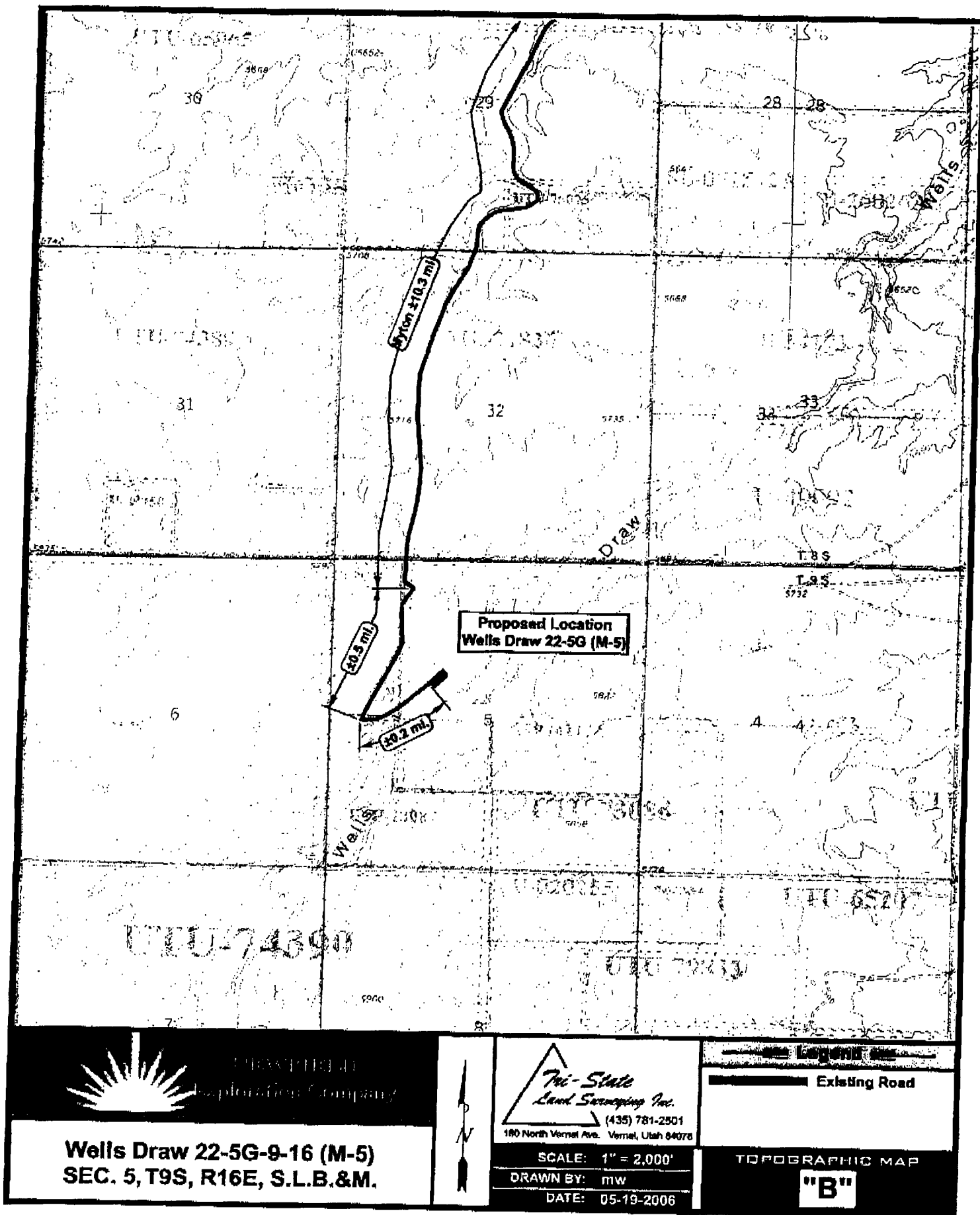
REGISTERED LAND SURVEYOR  
STACY W.  
REGISTRATION No. 189377  
STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 5-18-06	SURVEYED BY: C.M.
DATE DRAWN: 5-19-06	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

◆ = SECTION CORNERS LOCATED  
BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MYTON SW)

WELLS DRAW M-5-9-16  
(Surface Location) NAD 83  
LATITUDE = 40° 03' 41.78"  
LONGITUDE = 110° 08' 46.47"



**NEWFIELD PRODUCTION COMPANY  
WELLS DRAW FEDERAL #M-5-9-16  
AT SURFACE: SE/NW SECTION 5, T9S, R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 2998'
Green River	2998'
Wasatch	6378'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 2998' – 6378' - Oil

**4. PROPOSED CASING PROGRAM**

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Monument Butte Field SOP.

**7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Monument Butte Field SOP.

**8. TESTING, LOGGING AND CORING PROGRAMS:**

Please refer to the Monument Butte Field SOP.

**9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

**10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Monument Butte Field SOP.

**NEWFIELD PRODUCTION COMPANY  
WELLS DRAW FEDERAL #M-5-9-16  
AT SURFACE: SE/NW SECTION 5, T9S, R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Wells Draw Federal #M-5-9-16 located in the SE 1/4 NW 1/4 Section 5, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southwesterly - 9.2  $\pm$  to it's junction with an existing dirt road to the northeast; proceed northeasterly - 0.2 miles  $\pm$  to the beginning of the access road to the existing Wells Draw 22-5G well lcoation.

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing Wells Draw 22-5G well pad. See attached **Topographic Map "B"**.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

The proposed well will be drilled directionally off of the Wells Draw 22-5G well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Wells Draw Federal M-5-9-16.

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

**5. LOCATION AND TYPE OF WATER SUPPLY**

Please refer to the Monument Butte Field SOP. See Exhibit "A".

**6. SOURCE OF CONSTRUCTION MATERIALS**

The proposed Wells Draw Federal M-5-9-16 will be drilled off of the existing Wells Draw 22-5G well pad. No additional surface disturbance will be required for this location.

**7. METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

**8. ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.



9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management (Proposed location and access roads leading to).

11. **OTHER ADDITIONAL INFORMATION**

**Water Disposal**

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

None for the proposed Wells Draw Federal M-5-9-16.

**Reserve Pit Liner**

A 12 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Western Wheatgrass	<i>Pascopyrum Smithii</i>	6 lbs/acre
Galletta Grass	<i>Hilaria Jamesii</i>	6 lbs/acre

**Details of the On-Site Inspection**

The proposed Wells Draw Federal #M-5-9-16 was on-sited on 5/31/06. The following were present; Shon Mckinnon (Newfeild Production), Chris Carusona (Bureau of Land Management), and Nate West (Bureau of Landmanagement). Weather conditions were clear and ground cover was 100% open.

13. **LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

**Representative**

Name: Shon Mckinnon  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

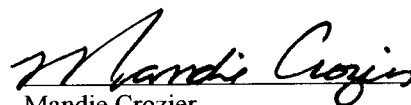
**Certification**

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #M-5-9-16 SE/NW Section 5, Township 9S, Range 16E: Lease UTU-30096 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by US Specialty Insurance #B001832.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

7/25/06

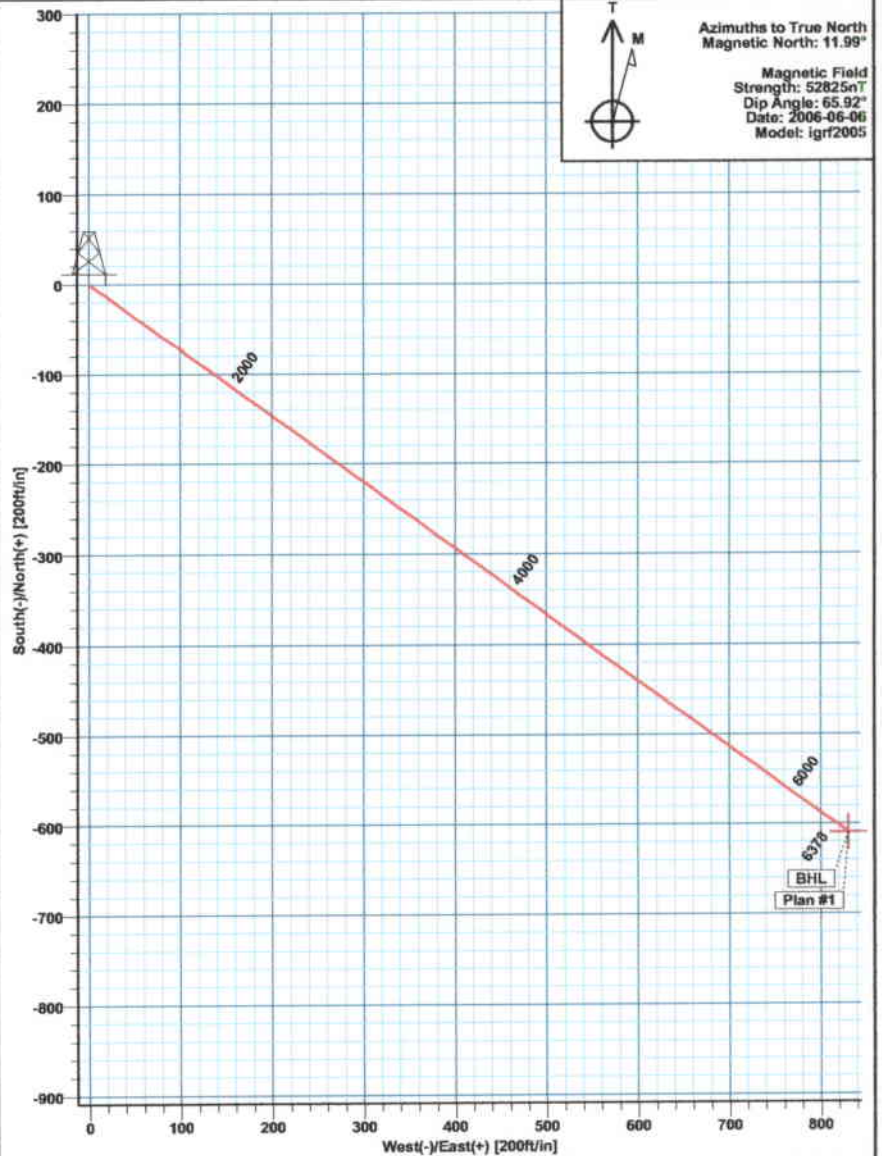
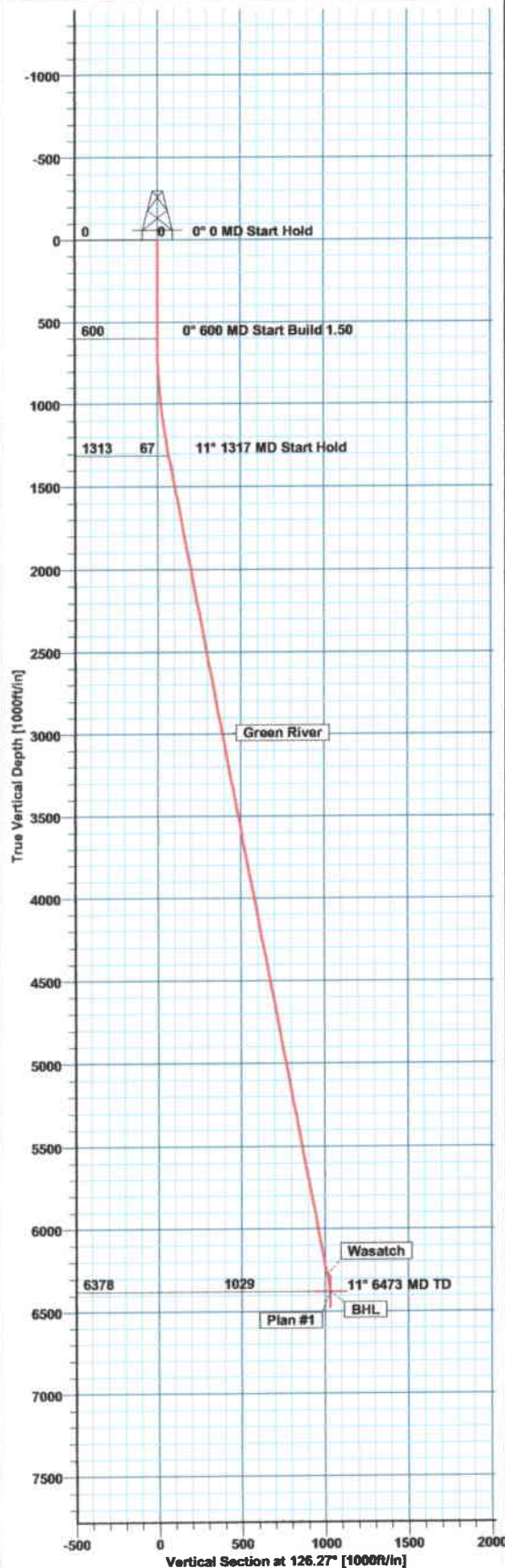
Date



Mandie Crozier

Regulatory Specialist

Newfield Production Company



Azimuths to True North  
Magnetic North: 11.99°

Magnetic Field  
Strength: 52825nT  
Dip Angle: 65.92°  
Date: 2006-06-06  
Model: igr2005

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	DLeg	TFace	VSec	Target
1	0.00	0.00	126.27	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	126.27	600.00	0.00	0.00	0.00	0.00	0.00	
3	1317.18	10.76	126.27	1312.97	-38.71	54.12	1.50	126.27	67.13	
4	6472.81	10.76	126.27	6376.00	-908.00	836.00	0.00	0.00	1029.46	BHL

#### WELL DETAILS

Name	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
WD M-5-9-16	0.00	0.00	7194045.38	2019302.81	40°03'41.780N	110°08'46.470W	N/A

#### SITE DETAILS

Wells Draw M-5-9-16  
Sec. 5 T9S R16E  
Site Centre Latitude: 40°03'41.780N  
Longitude: 110°08'46.470W  
Ground Level: 5786.00  
Positional Uncertainty: 0.00  
Convergence: 0.87

#### Plan: Plan #1 (WD M-5-9-16/OH)

Created By: Julie Seaman Date: 2006-06-06

#### FIELD DETAILS

Duchesne County, UT  
Geodetic System: US State Plane Coordinate System 1983  
Ellipsoid: GRS 1980  
Zone: Utah, Central Zone  
Magnetic Model: igr2005  
System Datum: Mean Sea Level  
Local North: True North

# Scientific Drilling International

## Planning Report

**Company:** Newfield Exploration Co. **Date:** 2006-06-06 **Time:** 17:20:26 **Page:** 1  
**Field:** Duchesne County, UT **Co-ordinate(NE) Reference:** Well: WD M-5-9-16, True North  
**Site:** Wells Draw M-5-9-16 **Vertical (TVD) Reference:** GL 5786' & RKB 12' 5798.0  
**Well:** WD M-5-9-16 **Section (VS) Reference:** Well (0.00N,0.00E,126.27Azi)  
**Wellpath:** OH **Plan:** Plan #1

**Field:** Duchesne County, UT

**Map System:** US State Plane Coordinate System 1983  
**Geo Datum:** GRS 1980  
**Sys Datum:** Mean Sea Level

**Map Zone:** Utah, Central Zone  
**Coordinate System:** Well Centre  
**Geomagnetic Model:** igrf2005

**Site:** Wells Draw M-5-9-16  
 Sec. 5 T9S R16E

**Site Position:** **Northing:** 7194045.38 ft **Latitude:** 40 3 41.780 N  
**From:** Geographic **Easting:** 2019302.81 ft **Longitude:** 110 8 46.470 W  
**Position Uncertainty:** 0.00 ft **North Reference:** True  
**Ground Level:** 5786.00 ft **Grid Convergence:** 0.87 deg

**Well:** WD M-5-9-16 **Slot Name:**  
 SHL: 2033' FNL, 1816' FWL  
**Well Position:** +N/-S 0.00 ft **Northing:** 7194045.38 ft **Latitude:** 40 3 41.780 N  
 +E/-W 0.00 ft **Easting:** 2019302.81 ft **Longitude:** 110 8 46.470 W  
**Position Uncertainty:** 0.00 ft

**Wellpath:** OH **Drilled From:** Surface  
**Current Datum:** GL 5786' & RKB 12' **Height** 5798.00 ft **Tie-on Depth:** 0.00 ft  
**Magnetic Data:** 2006-06-06 **Above System Datum:** Mean Sea Level  
**Field Strength:** 52825 nT **Declination:** 11.99 deg  
**Vertical Section:** Depth From (TVD) +N/-S **Mag Dip Angle:** 65.92 deg  
 ft ft **+E/-W** **Direction**  
 ft deg  
 6378.00 0.00 0.00 126.27

**Plan:** Plan #1 **Date Composed:** 2006-06-06  
**Principal:** Yes **Version:** 1  
**Tied-to:** From Surface

### Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	126.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	126.27	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1317.18	10.76	126.27	1312.97	-39.71	54.12	1.50	1.50	0.00	126.27	
6472.81	10.76	126.27	6378.00	-609.00	830.00	0.00	0.00	0.00	0.00	BHL

### Section 1 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
0.00	0.00	126.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	126.27	100.00	0.00	0.00	0.00	0.00	0.00	0.00	126.27
200.00	0.00	126.27	200.00	0.00	0.00	0.00	0.00	0.00	0.00	126.27
300.00	0.00	126.27	300.00	0.00	0.00	0.00	0.00	0.00	0.00	126.27
400.00	0.00	126.27	400.00	0.00	0.00	0.00	0.00	0.00	0.00	126.27
500.00	0.00	126.27	500.00	0.00	0.00	0.00	0.00	0.00	0.00	126.27
600.00	0.00	126.27	600.00	0.00	0.00	0.00	0.00	0.00	0.00	126.27

### Section 2 : Start Build 1.50

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
700.00	1.50	126.27	699.99	-0.77	1.06	1.31	1.50	1.50	0.00	0.00
800.00	3.00	126.27	799.91	-3.10	4.22	5.23	1.50	1.50	0.00	0.00
900.00	4.50	126.27	899.69	-6.97	9.49	11.77	1.50	1.50	0.00	0.00
1000.00	6.00	126.27	999.27	-12.38	16.87	20.92	1.50	1.50	0.00	0.00
1100.00	7.50	126.27	1098.57	-19.33	26.35	32.68	1.50	1.50	0.00	0.00
1200.00	9.00	126.27	1197.54	-27.82	37.92	47.03	1.50	1.50	0.00	0.00
1300.00	10.50	126.27	1296.09	-37.84	51.57	63.96	1.50	1.50	0.00	0.00
1317.18	10.76	126.27	1312.97	-39.71	54.12	67.13	1.50	1.50	0.00	0.00

# Scientific Drilling International

## Planning Report

<b>Company:</b> Newfield Exploration Co. <b>Field:</b> Duchesne County, UT <b>Site:</b> Wells Draw M-5-9-16 <b>Well:</b> WD M-5-9-16 <b>Wellpath:</b> OH	<b>Date:</b> 2006-06-06 <b>Time:</b> 17:20:26 <b>Page:</b> 2 <b>Co-ordinate(NE) Reference:</b> Well: WD M-5-9-16, True North <b>Vertical (TVD) Reference:</b> GL 5786' & RKB 12' 5798.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,126.27Azi) <b>Plan:</b> Plan #1
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### Section 2 : Start Build 1.50

MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Build	Turn	TFO

### Section 3 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
1400.00	10.76	126.27	1394.34	-48.86	66.59	82.59	0.00	0.00	0.00	180.00
1500.00	10.76	126.27	1492.58	-59.90	81.64	101.25	0.00	0.00	0.00	180.00
1600.00	10.76	126.27	1590.82	-70.94	96.69	119.92	0.00	0.00	0.00	180.00
1700.00	10.76	126.27	1689.07	-81.98	111.73	138.59	0.00	0.00	0.00	180.00
1800.00	10.76	126.27	1787.31	-93.03	126.78	157.25	0.00	0.00	0.00	180.00
1900.00	10.76	126.27	1885.55	-104.07	141.83	175.92	0.00	0.00	0.00	180.00
2000.00	10.76	126.27	1983.79	-115.11	156.88	194.58	0.00	0.00	0.00	180.00
2100.00	10.76	126.27	2082.04	-126.15	171.93	213.25	0.00	0.00	0.00	180.00
2200.00	10.76	126.27	2180.28	-137.19	186.98	231.91	0.00	0.00	0.00	180.00
2300.00	10.76	126.27	2278.52	-148.24	202.03	250.58	0.00	0.00	0.00	180.00
2400.00	10.76	126.27	2376.76	-159.28	217.08	269.24	0.00	0.00	0.00	180.00
2500.00	10.76	126.27	2475.01	-170.32	232.13	287.91	0.00	0.00	0.00	180.00
2600.00	10.76	126.27	2573.25	-181.36	247.18	306.58	0.00	0.00	0.00	180.00
2700.00	10.76	126.27	2671.49	-192.40	262.23	325.24	0.00	0.00	0.00	180.00
2800.00	10.76	126.27	2769.73	-203.45	277.27	343.91	0.00	0.00	0.00	180.00
2900.00	10.76	126.27	2867.98	-214.49	292.32	362.57	0.00	0.00	0.00	180.00
3000.00	10.76	126.27	2966.22	-225.53	307.37	381.24	0.00	0.00	0.00	180.00
3032.35	10.76	126.27	2998.00	-229.10	312.24	387.28	0.00	0.00	0.00	180.00
3100.00	10.76	126.27	3064.46	-236.57	322.42	399.90	0.00	0.00	0.00	180.00
3200.00	10.76	126.27	3162.70	-247.61	337.47	418.57	0.00	0.00	0.00	180.00
3300.00	10.76	126.27	3260.95	-258.66	352.52	437.23	0.00	0.00	0.00	180.00
3400.00	10.76	126.27	3359.19	-269.70	367.57	455.90	0.00	0.00	0.00	180.00
3500.00	10.76	126.27	3457.43	-280.74	382.62	474.57	0.00	0.00	0.00	180.00
3600.00	10.76	126.27	3555.67	-291.78	397.67	493.23	0.00	0.00	0.00	180.00
3700.00	10.76	126.27	3653.92	-302.82	412.72	511.90	0.00	0.00	0.00	180.00
3800.00	10.76	126.27	3752.16	-313.87	427.77	530.56	0.00	0.00	0.00	180.00
3900.00	10.76	126.27	3850.40	-324.91	442.81	549.23	0.00	0.00	0.00	180.00
4000.00	10.76	126.27	3948.64	-335.95	457.86	567.89	0.00	0.00	0.00	180.00
4100.00	10.76	126.27	4046.89	-346.99	472.91	586.56	0.00	0.00	0.00	180.00
4200.00	10.76	126.27	4145.13	-358.03	487.96	605.22	0.00	0.00	0.00	180.00
4300.00	10.76	126.27	4243.37	-369.08	503.01	623.89	0.00	0.00	0.00	180.00
4400.00	10.76	126.27	4341.61	-380.12	518.06	642.55	0.00	0.00	0.00	180.00
4500.00	10.76	126.27	4439.86	-391.16	533.11	661.22	0.00	0.00	0.00	180.00
4600.00	10.76	126.27	4538.10	-402.20	548.16	679.89	0.00	0.00	0.00	180.00
4700.00	10.76	126.27	4636.34	-413.25	563.21	698.55	0.00	0.00	0.00	180.00
4800.00	10.76	126.27	4734.58	-424.29	578.26	717.22	0.00	0.00	0.00	180.00
4900.00	10.76	126.27	4832.83	-435.33	593.31	735.88	0.00	0.00	0.00	180.00
5000.00	10.76	126.27	4931.07	-446.37	608.35	754.55	0.00	0.00	0.00	180.00
5100.00	10.76	126.27	5029.31	-457.41	623.40	773.21	0.00	0.00	0.00	180.00
5200.00	10.76	126.27	5127.55	-468.46	638.45	791.88	0.00	0.00	0.00	180.00
5300.00	10.76	126.27	5225.80	-479.50	653.50	810.54	0.00	0.00	0.00	180.00
5400.00	10.76	126.27	5324.04	-490.54	668.55	829.21	0.00	0.00	0.00	180.00
5500.00	10.76	126.27	5422.28	-501.58	683.60	847.88	0.00	0.00	0.00	180.00
5600.00	10.76	126.27	5520.53	-512.62	698.65	866.54	0.00	0.00	0.00	180.00
5700.00	10.76	126.27	5618.77	-523.67	713.70	885.21	0.00	0.00	0.00	180.00
5800.00	10.76	126.27	5717.01	-534.71	728.75	903.87	0.00	0.00	0.00	180.00
5900.00	10.76	126.27	5815.25	-545.75	743.80	922.54	0.00	0.00	0.00	180.00
6000.00	10.76	126.27	5913.50	-556.79	758.85	941.20	0.00	0.00	0.00	180.00
6100.00	10.76	126.27	6011.74	-567.83	773.89	959.87	0.00	0.00	0.00	180.00
6200.00	10.76	126.27	6109.98	-578.88	788.94	978.53	0.00	0.00	0.00	180.00
6300.00	10.76	126.27	6208.22	-589.92	803.99	997.20	0.00	0.00	0.00	180.00
6365.94	10.76	126.27	6273.00	-597.20	813.92	1009.51	0.00	0.00	0.00	180.00
6400.00	10.76	126.27	6306.47	-600.96	819.04	1015.87	0.00	0.00	0.00	180.00
6472.81	10.76	126.27	6378.00	-609.00	830.00	1029.46	0.00	0.00	0.00	180.00

# Scientific Drilling International

## Planning Report

Company: Newfield Exploration Co.  
Field: Duchesne County, UT  
Site: Wells Draw M-5-9-16  
Well: WD M-5-9-16  
Wellpath: OH

Date: 2006-06-06 Time: 17:20:26 Page: 3  
Co-ordinate(NE) Reference: Well: WD M-5-9-16, True North  
Vertical (TVD) Reference: GL 5786' & RKB 12' 5798.0  
Section (VS) Reference: Well (0.00N,0.00E,126.27Azi)  
Plan: Plan #1

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	126.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	126.27	100.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
200.00	0.00	126.27	200.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
300.00	0.00	126.27	300.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
400.00	0.00	126.27	400.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
500.00	0.00	126.27	500.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
600.00	0.00	126.27	600.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
700.00	1.50	126.27	699.99	-0.77	1.06	1.31	1.50	1.50	0.00	MWD
800.00	3.00	126.27	799.91	-3.10	4.22	5.23	1.50	1.50	0.00	MWD
900.00	4.50	126.27	899.69	-6.97	9.49	11.77	1.50	1.50	0.00	MWD
1000.00	6.00	126.27	999.27	-12.38	16.87	20.92	1.50	1.50	0.00	MWD
1100.00	7.50	126.27	1098.57	-19.33	26.35	32.68	1.50	1.50	0.00	MWD
1200.00	9.00	126.27	1197.54	-27.82	37.92	47.03	1.50	1.50	0.00	MWD
1300.00	10.50	126.27	1296.09	-37.84	51.57	63.96	1.50	1.50	0.00	MWD
1317.18	10.76	126.27	1312.97	-39.71	54.12	67.13	1.50	1.50	0.00	MWD
1400.00	10.76	126.27	1394.34	-48.86	66.59	82.59	0.00	0.00	0.00	MWD
1500.00	10.76	126.27	1492.58	-59.90	81.64	101.25	0.00	0.00	0.00	MWD
1600.00	10.76	126.27	1590.82	-70.94	96.69	119.92	0.00	0.00	0.00	MWD
1700.00	10.76	126.27	1689.07	-81.98	111.73	138.59	0.00	0.00	0.00	MWD
1800.00	10.76	126.27	1787.31	-93.03	126.78	157.25	0.00	0.00	0.00	MWD
1900.00	10.76	126.27	1885.55	-104.07	141.83	175.92	0.00	0.00	0.00	MWD
2000.00	10.76	126.27	1983.79	-115.11	156.88	194.58	0.00	0.00	0.00	MWD
2100.00	10.76	126.27	2082.04	-126.15	171.93	213.25	0.00	0.00	0.00	MWD
2200.00	10.76	126.27	2180.28	-137.19	186.98	231.91	0.00	0.00	0.00	MWD
2300.00	10.76	126.27	2278.52	-148.24	202.03	250.58	0.00	0.00	0.00	MWD
2400.00	10.76	126.27	2376.76	-159.28	217.08	269.24	0.00	0.00	0.00	MWD
2500.00	10.76	126.27	2475.01	-170.32	232.13	287.91	0.00	0.00	0.00	MWD
2600.00	10.76	126.27	2573.25	-181.36	247.18	306.58	0.00	0.00	0.00	MWD
2700.00	10.76	126.27	2671.49	-192.40	262.23	325.24	0.00	0.00	0.00	MWD
2800.00	10.76	126.27	2769.73	-203.45	277.27	343.91	0.00	0.00	0.00	MWD
2900.00	10.76	126.27	2867.98	-214.49	292.32	362.57	0.00	0.00	0.00	MWD
3000.00	10.76	126.27	2966.22	-225.53	307.37	381.24	0.00	0.00	0.00	MWD
3032.35	10.76	126.27	2998.00	-229.10	312.24	387.28	0.00	0.00	0.00	Green River
3100.00	10.76	126.27	3064.46	-236.57	322.42	399.90	0.00	0.00	0.00	MWD
3200.00	10.76	126.27	3162.70	-247.61	337.47	418.57	0.00	0.00	0.00	MWD
3300.00	10.76	126.27	3260.95	-258.66	352.52	437.23	0.00	0.00	0.00	MWD
3400.00	10.76	126.27	3359.19	-269.70	367.57	455.90	0.00	0.00	0.00	MWD
3500.00	10.76	126.27	3457.43	-280.74	382.62	474.57	0.00	0.00	0.00	MWD
3600.00	10.76	126.27	3555.67	-291.78	397.67	493.23	0.00	0.00	0.00	MWD
3700.00	10.76	126.27	3653.92	-302.82	412.72	511.90	0.00	0.00	0.00	MWD
3800.00	10.76	126.27	3752.16	-313.87	427.77	530.56	0.00	0.00	0.00	MWD
3900.00	10.76	126.27	3850.40	-324.91	442.81	549.23	0.00	0.00	0.00	MWD
4000.00	10.76	126.27	3948.64	-335.95	457.86	567.89	0.00	0.00	0.00	MWD
4100.00	10.76	126.27	4046.89	-346.99	472.91	586.56	0.00	0.00	0.00	MWD
4200.00	10.76	126.27	4145.13	-358.03	487.96	605.22	0.00	0.00	0.00	MWD
4300.00	10.76	126.27	4243.37	-369.08	503.01	623.89	0.00	0.00	0.00	MWD
4400.00	10.76	126.27	4341.61	-380.12	518.06	642.55	0.00	0.00	0.00	MWD
4500.00	10.76	126.27	4439.86	-391.16	533.11	661.22	0.00	0.00	0.00	MWD
4600.00	10.76	126.27	4538.10	-402.20	548.16	679.89	0.00	0.00	0.00	MWD
4700.00	10.76	126.27	4636.34	-413.25	563.21	698.55	0.00	0.00	0.00	MWD
4800.00	10.76	126.27	4734.58	-424.29	578.26	717.22	0.00	0.00	0.00	MWD
4900.00	10.76	126.27	4832.83	-435.33	593.31	735.88	0.00	0.00	0.00	MWD
5000.00	10.76	126.27	4931.07	-446.37	608.35	754.55	0.00	0.00	0.00	MWD
5100.00	10.76	126.27	5029.31	-457.41	623.40	773.21	0.00	0.00	0.00	MWD

# Scientific Drilling International

## Planning Report

**Company:** Newfield Exploration Co.  
**Field:** Duchesne County, UT  
**Site:** Wells Draw M-5-9-16  
**Well:** WD M-5-9-16  
**Wellpath:** OH

**Date:** 2006-06-06 **Time:** 17:20:26 **Page:** 4  
**Co-ordinate(NE) Reference:** Well: WD M-5-9-16, True North  
**Vertical (TVD) Reference:** GL 5786' & RKB 12' 5798.0  
**Section (VS) Reference:** Well (0.00N,0.00E,126.27Azi)  
**Plan:** Plan #1

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
5200.00	10.76	126.27	5127.55	-468.46	638.45	791.88	0.00	0.00	0.00	MWD
5300.00	10.76	126.27	5225.80	-479.50	653.50	810.54	0.00	0.00	0.00	MWD
5400.00	10.76	126.27	5324.04	-490.54	668.55	829.21	0.00	0.00	0.00	MWD
5500.00	10.76	126.27	5422.28	-501.58	683.60	847.88	0.00	0.00	0.00	MWD
5600.00	10.76	126.27	5520.53	-512.62	698.65	866.54	0.00	0.00	0.00	MWD
5700.00	10.76	126.27	5618.77	-523.67	713.70	885.21	0.00	0.00	0.00	MWD
5800.00	10.76	126.27	5717.01	-534.71	728.75	903.87	0.00	0.00	0.00	MWD
5900.00	10.76	126.27	5815.25	-545.75	743.80	922.54	0.00	0.00	0.00	MWD
6000.00	10.76	126.27	5913.50	-556.79	758.85	941.20	0.00	0.00	0.00	MWD
6100.00	10.76	126.27	6011.74	-567.83	773.89	959.87	0.00	0.00	0.00	MWD
6200.00	10.76	126.27	6109.98	-578.88	788.94	978.53	0.00	0.00	0.00	MWD
6300.00	10.76	126.27	6208.22	-589.92	803.99	997.20	0.00	0.00	0.00	MWD
6365.94	10.76	126.27	6273.00	-597.20	813.92	1009.51	0.00	0.00	0.00	Wasatch
6400.00	10.76	126.27	6306.47	-600.96	819.04	1015.87	0.00	0.00	0.00	MWD
6472.81	10.76	126.27	6378.00	-609.00	830.00	1029.46	0.00	0.00	0.00	BHL

### Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec			← Longitude → Deg Min Sec		
BHL		6378.00	-609.00	830.00	7193449.01	2020141.93	40	3	35.761 N	110	8	35.794 W
-Plan hit target												

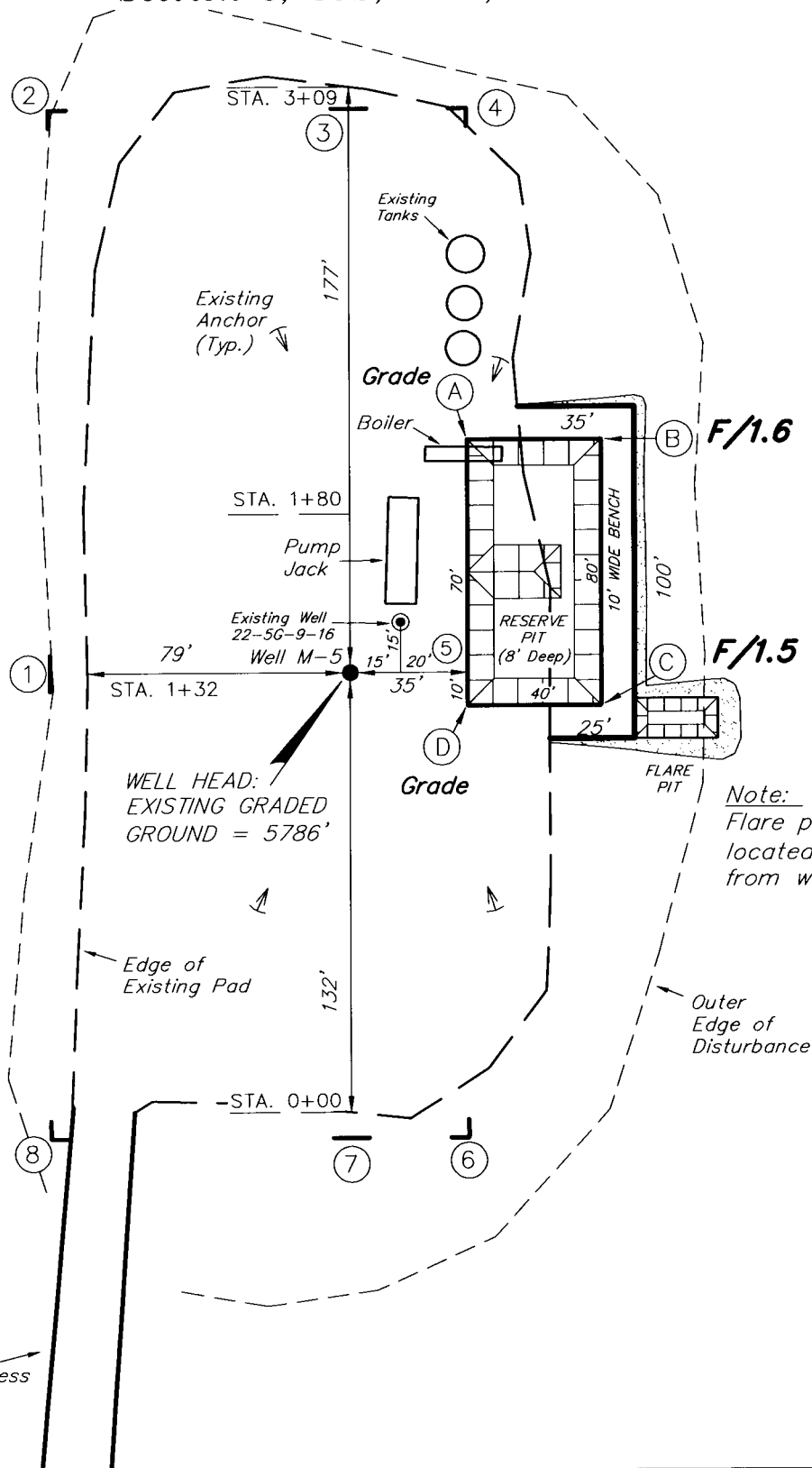
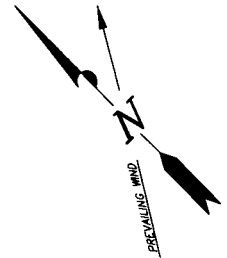
### Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
3032.35	2998.00	Green River		0.00	0.00
6365.94	6273.00	Wasatch		0.00	0.00

# NEWFIELD PRODUCTION COMPANY

WELLS DRAW 22-5G-9-16 (M-5)

Section 5, T9S, R16E, S.L.B.&M.



SURVEYED BY: C.M.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 05-19-06

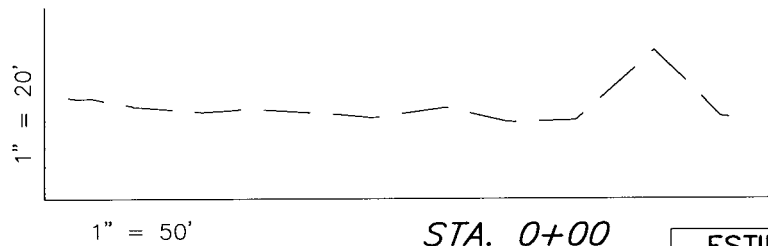
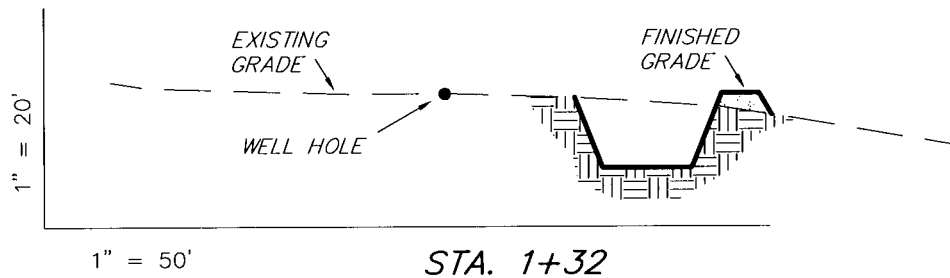
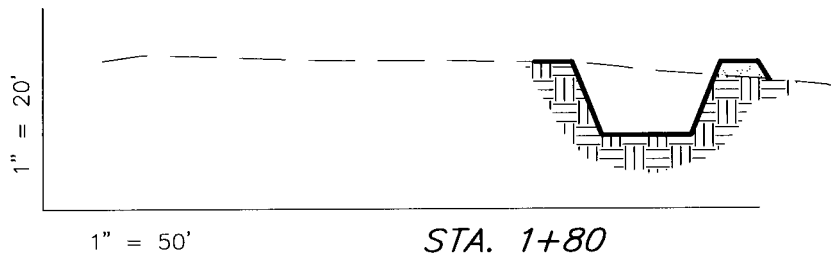
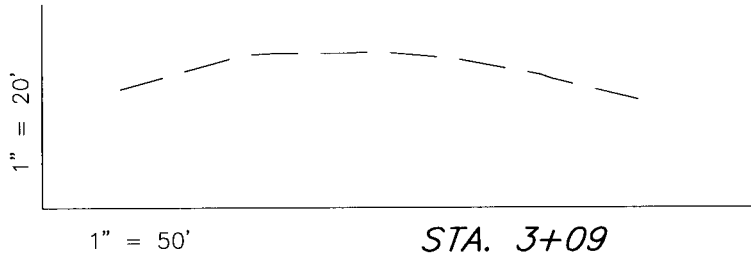
**Tri State**  
Land Surveying, Inc.

(435) 781-2501

180 NORTH VERNAL AVE. VERNAL, UTAH 84078



**NEWFIELD PRODUCTION COMPANY**  
**CROSS SECTIONS**  
**WELLS DRAW 22-5G-9-16 (M-5)**



NOTE:  
 UNLESS OTHERWISE NOTED  
 ALL CUT/FILL SLOPES ARE  
 AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	-100	180	Topsoil is not included in Pad Cut	-280
PIT	640	0		640
TOTALS	540	180	N/A	360

SURVEYED BY: C.M.

SCALE: 1" = 50'

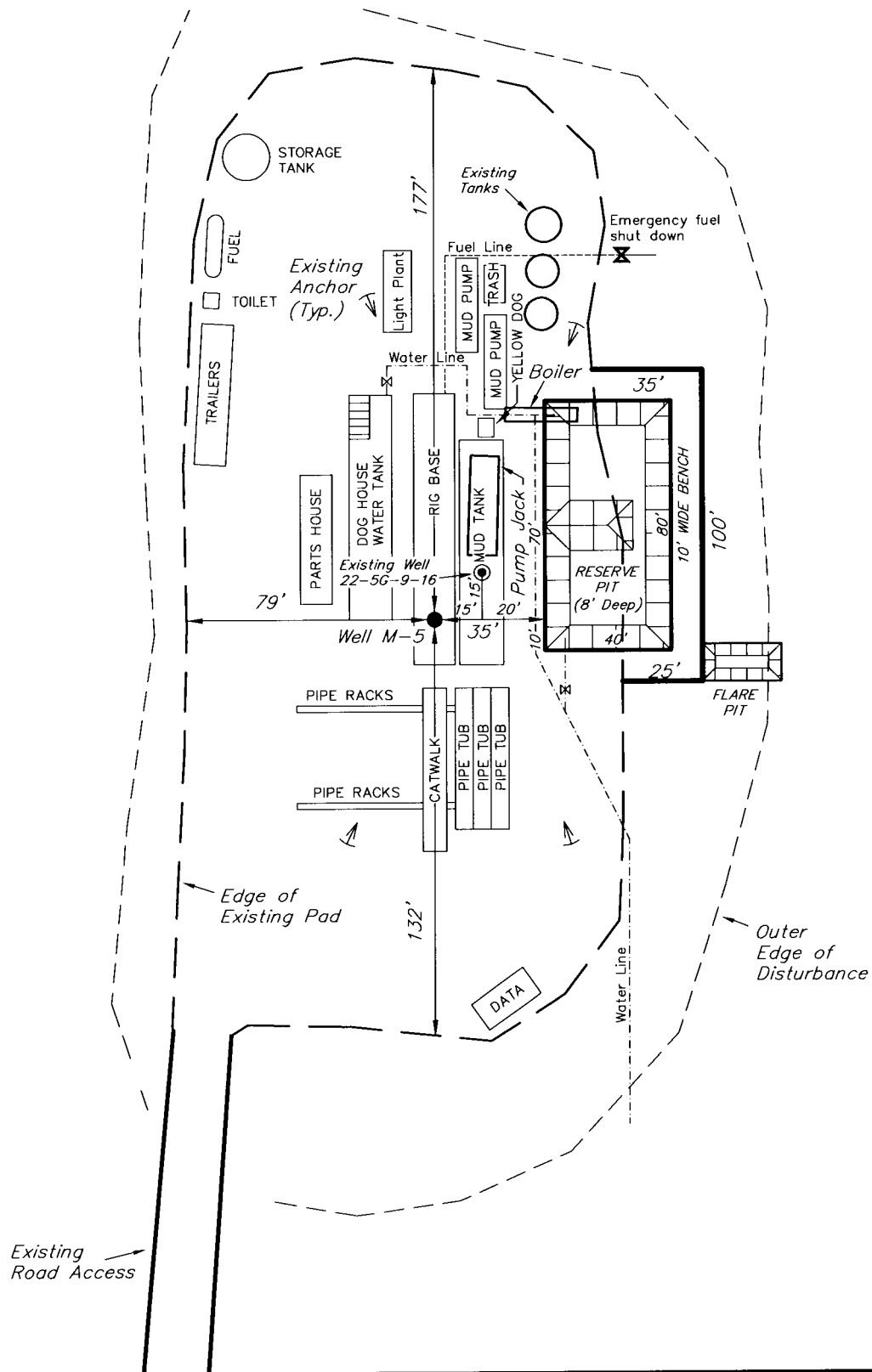
DRAWN BY: F.T.M.

DATE: 05-19-06

(435) 781-2501

**Tri State**  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**NEWFIELD PRODUCTION COMPANY**  
**TYPICAL RIG LAYOUT**  
**WELLS DRAW 22-5G-9-16 (M-5)**



SURVEYED BY: C.M.

SCALE: 1" = 50'

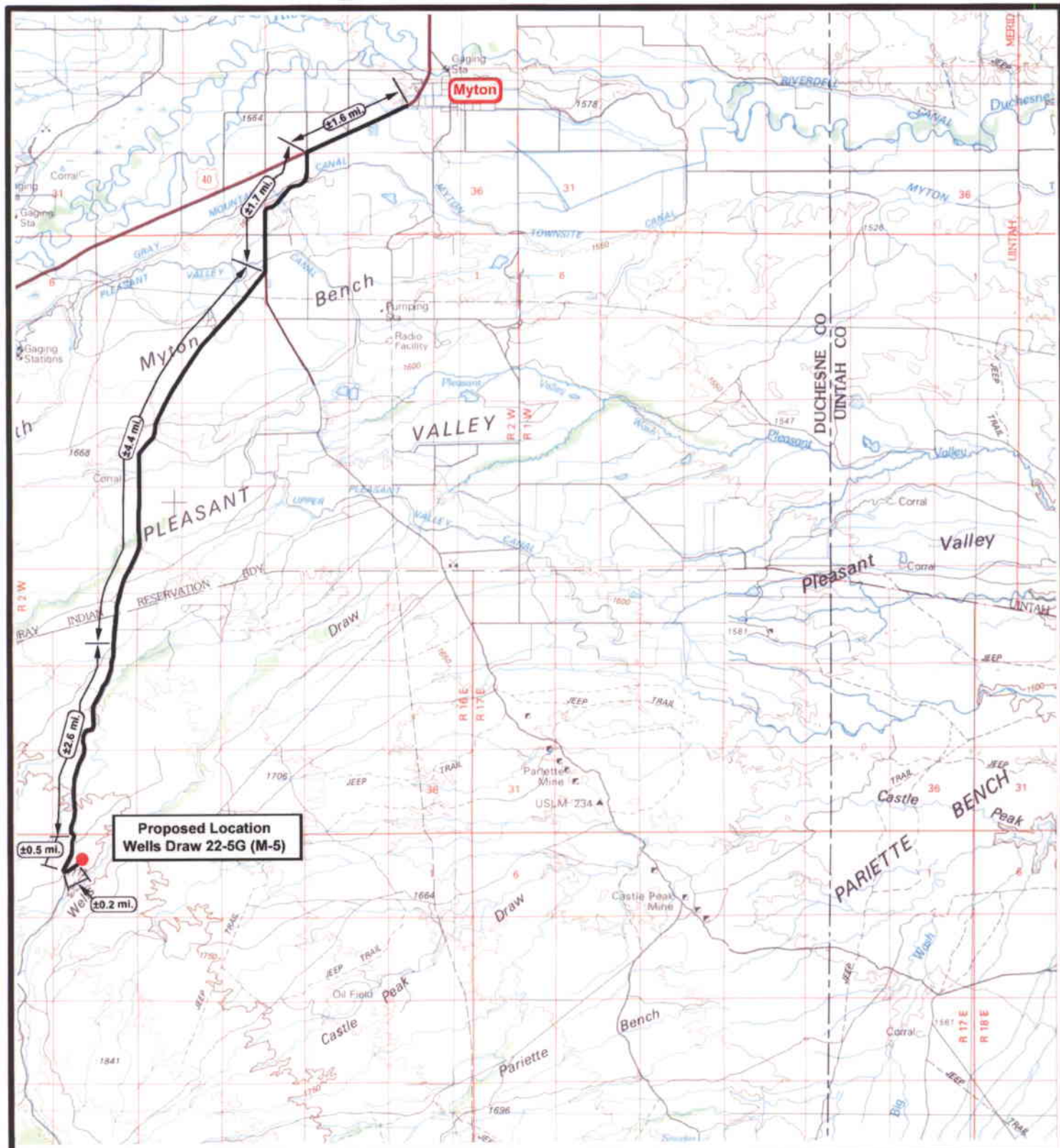
DRAWN BY: F.T.M.

DATE: 05-19-06

**Tri State**  
**Land Surveying, Inc.**  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
 (435) 781-2501

## UTU-30096





**NEWFIELD**  
Exploration Company

**Wells Draw 22-5G-9-16 (M-5)**  
**SEC. 5, T9S, R16E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 : 100,000  
DRAWN BY: mhw  
DATE: 05-22-2006

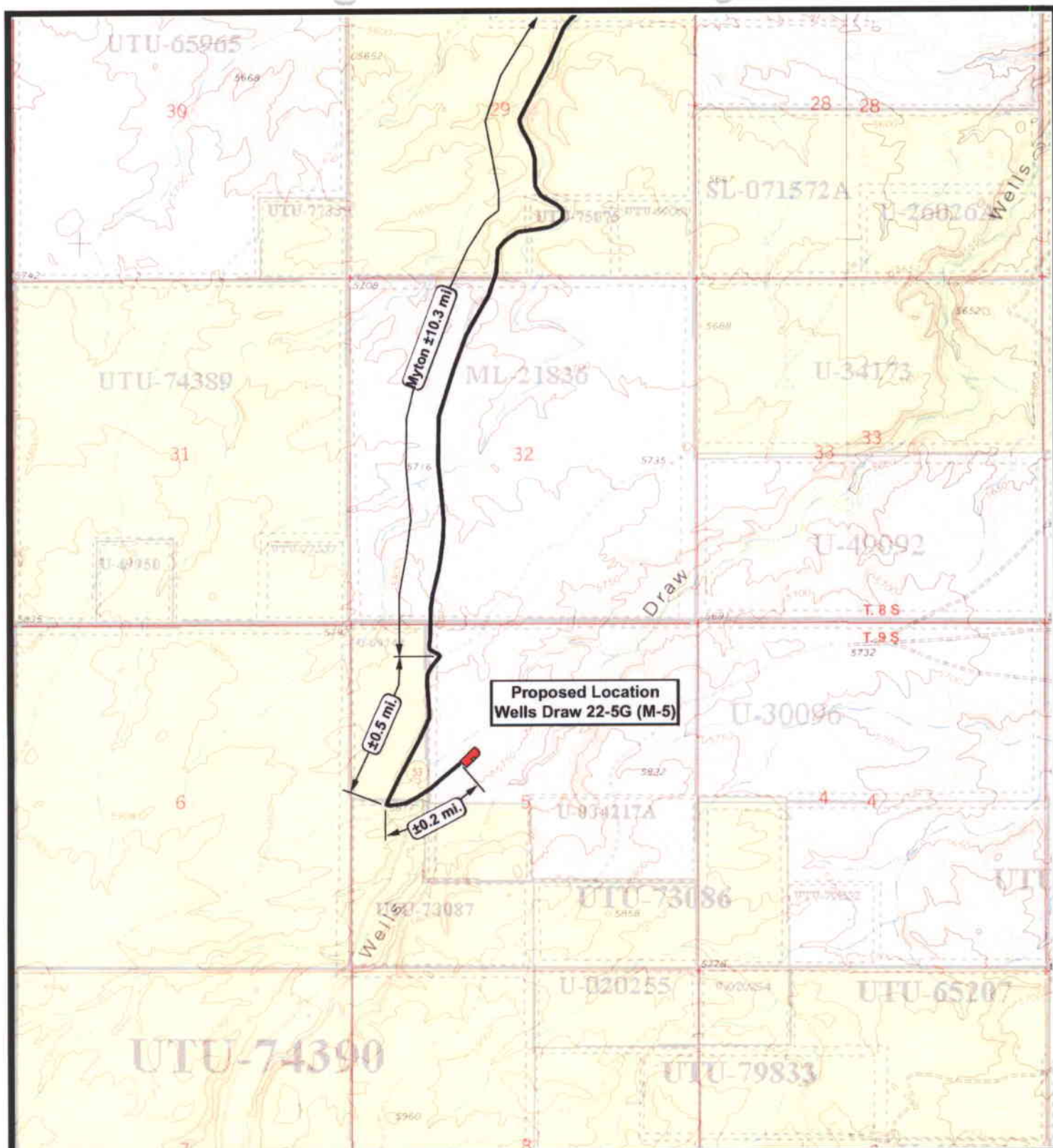
**Legend**

Existing Road

TOPOGRAPHIC MAP

**"A"**





**NEWFIELD**  
Exploration Company

**Wells Draw 22-5G-9-16 (M-5)**  
**SEC. 5, T9S, R16E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

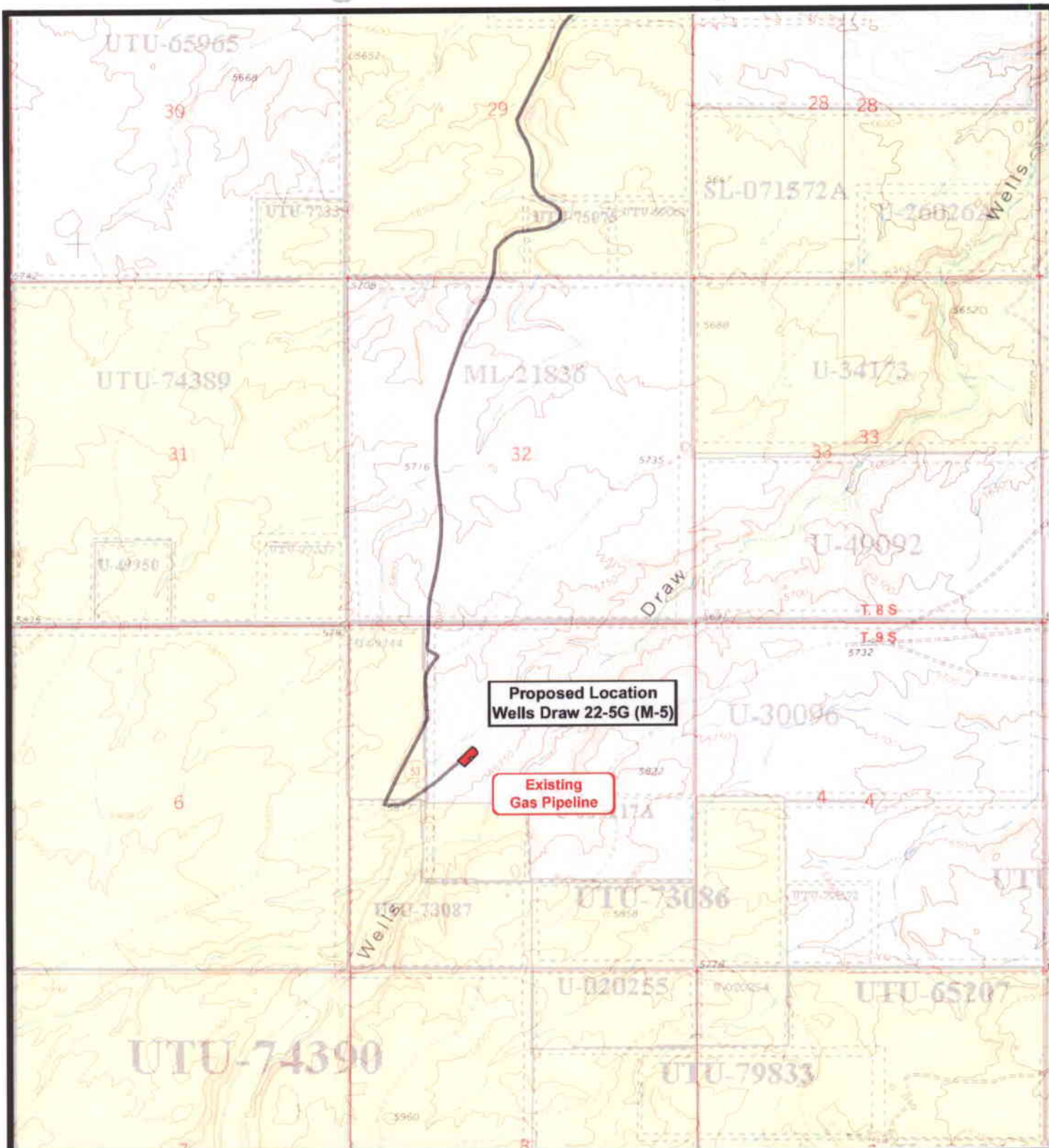
**SCALE:** 1" = 2,000'  
**DRAWN BY:** mw  
**DATE:** 05-19-2006




**Legend**

Existing Road

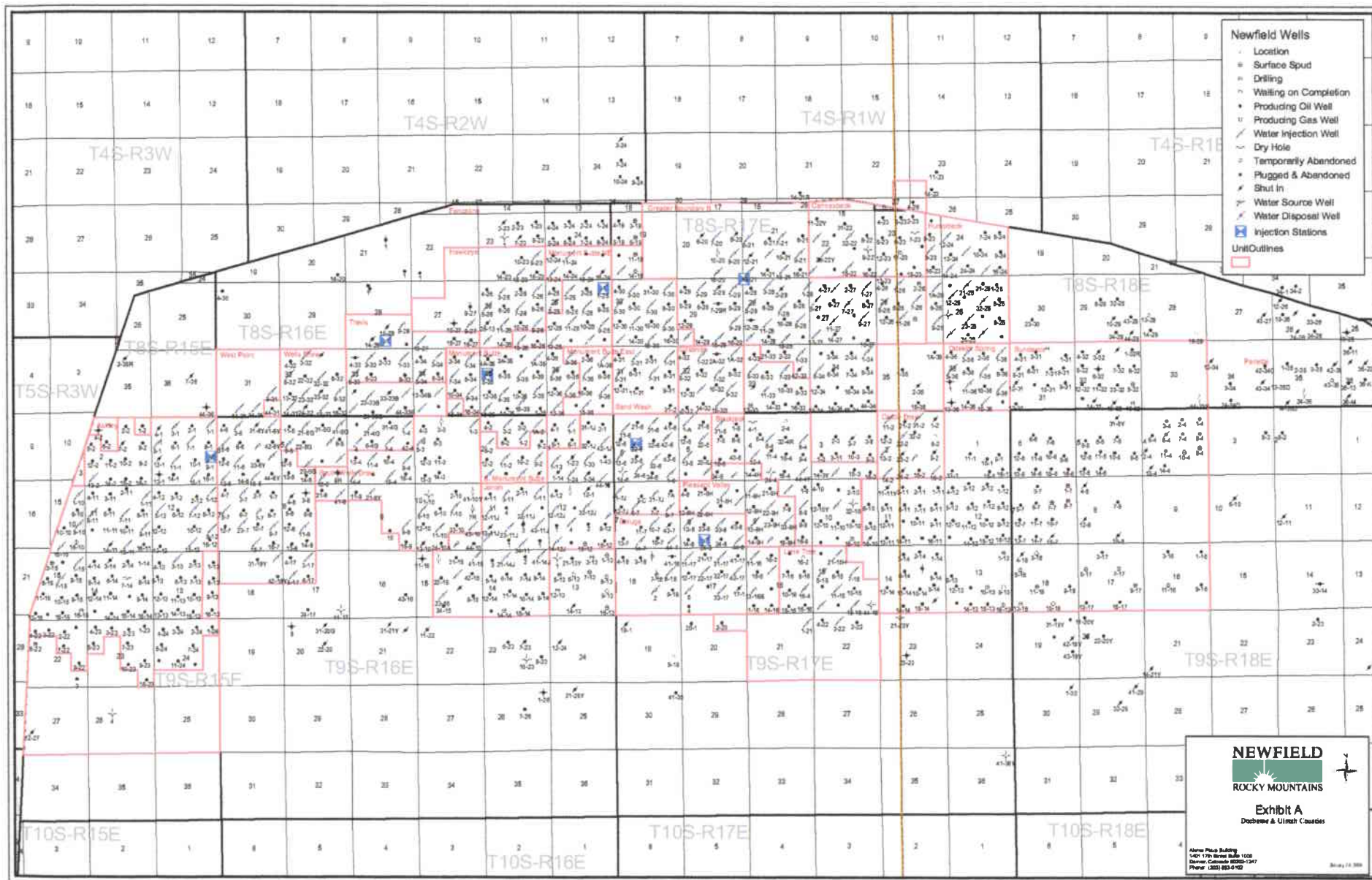
**TOPOGRAPHIC MAP**

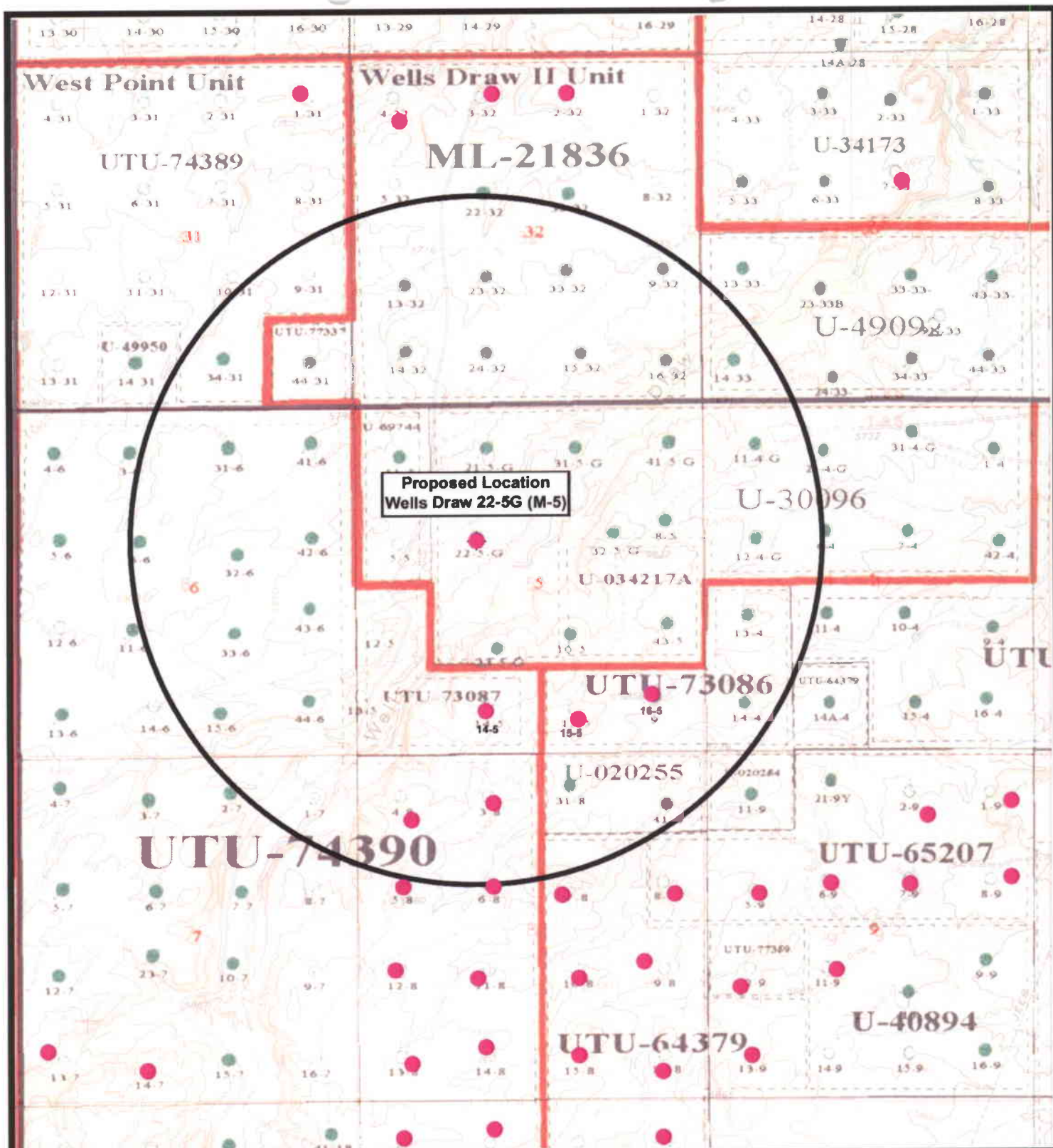
**"B"**



 <p><b>NEWFIELD</b> Exploration Company</p>		 <p><b>Tri-State</b> Land Surveying Inc. (435) 781-2501 180 North Vernal Ave. Vernal, Utah 84078</p>	<p><b>Legend</b></p> <p>— Roads</p>
<p><b>Wells Draw 22-5G-9-16 (M-5)</b> <b>SEC. 5, T9S, R16E, S.L.B.&amp;M.</b></p>		<p>SCALE: 1" = 2,000'</p> <p>DRAWN BY: mw</p> <p>DATE: 05-19-2006</p>	<p><b>TOPOGRAPHIC MAP</b></p> <p><b>"C"</b></p>







**NEWFIELD**  
Exploration Company

**Wells Draw 22-5G-9-16 (M-5)**  
**SEC. 5, T9S, R16E, S.L.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'

DRAWN BY: mw

DATE: 05-19-2006

**Legend**

- Location
- One-Mile Radius

**Exhibit "B"**



## 2-M SYSTEM

Blowout Prevention Equipment Systems

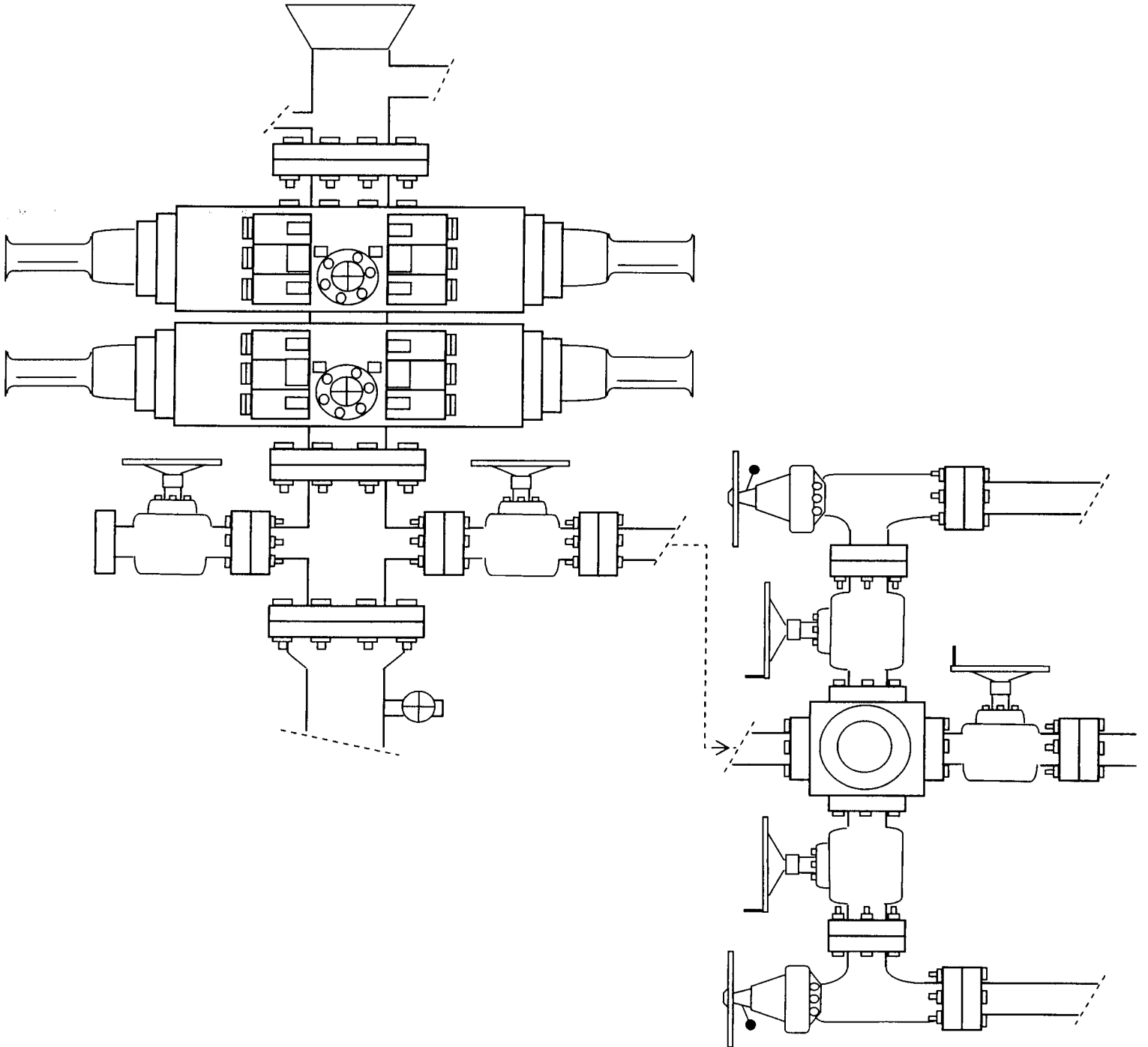


EXHIBIT C

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 07/26/2006

API NO. ASSIGNED: 43-013-33249

WELL NAME: WELLS DRAW FED M-5-9-16

OPERATOR: NEWFIELD PRODUCTION ( N2695 )

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

**PROPOSED LOCATION:**

SENW 05 090S 160E

SURFACE: 2033 FNL 1816 FWL

BOTTOM: 2642 FNL 2646 FWL

COUNTY: DUCHESNE

LATITUDE: 40.06163 LONGITUDE: -110.1455

UTM SURF EASTINGS: 572876 NORTHINGS: 4434737

FIELD NAME: MONUMENT BUTTE ( 105 )

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-30096

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

**RECEIVED AND/OR REVIEWED:**

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTB000192 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. MUNICIPAL )  
☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

**LOCATION AND SITING:**

\_\_\_\_ R649-2-3.  
Unit: WELLS DRAW (GREEN RIVER)  
\_\_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
\_\_\_\_ R649-3-3. Exception  
☒ Drilling Unit  
Board Cause No: 231-3  
Eff Date: 3-24-1999  
Siting: Suspends General Siting  
☒ R649-3-11. Directional Drill

COMMENTS:

See, Separate file

STIPULATIONS:

1- Federal Approval



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

August 3, 2006

### Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2006 Plan of Development Wells Draw Unit, Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2006 within the Wells Draw Unit, Duchesne County, Utah.

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ Green River)

43-013-33249 Wells Draw Fed M-5-9-16 Sec 5 T09S R16E 2033 FNL 1816 FWL  
BHL Sec 5 T09S R16E 2642 FNL 2646 FWL

These wells are part of a 20 acre infill program in the Greater Monument Butte Field. Telephone conversation with Kelly Donohoue, Newfield, indicated that they will apply for exceptions to the locating and siting requirements of the State of Utah (R649-3-2) on a well by well basis. Newfield is currently scheduled to seek relief on a unit basis at the September meeting of the Board of Oil Gas and Mining.

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File – Wells Draw Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron



## State of Utah

### Department of Natural Resources

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas & Mining

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

August 14, 2006

Newfield Production Company  
Rt. #3, Box 3630  
Myton, UT 84052

Re: Wells Draw Federal M-5-9-16 Well, Surface Location 2033' FNL, 1816' FWL, SE NW, Sec. 5, T. 9 South, R. 16 East, Bottom Location 2642' FNL, 2646' FWL, SE NW, Sec. 5, T. 9 South, R. 16 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33249.

Sincerely,

A handwritten signature in black ink, appearing to read "Gil Hunt".

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** Newfield Production Company  
**Well Name & Number** Wells Draw Federal M-5-9-16  
**API Number:** 43-013-33249  
**Lease:** UTU-30096

**Surface Location:** SE NW      **Sec.** 5      **T.** 9 South      **R.** 16 East  
**Bottom Location:** SE NW      **Sec.** 5      **T.** 9 South      **R.** 16 East

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**

**5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.**

# RECEIVED

Form 3160-3  
(September 2001)

JUL 26 2006

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-30096
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Wells Draw
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Wells Draw Federal M-5-9-16
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-33249
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SE/NW 2033' FNL 1816' FWL At proposed prod. zone 2642' FNL 2646' FWL		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 11.0 miles southwest of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 5, T9S R16E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 2' f/lse, 1318' f/unit	16. No. of Acres in lease 602.24	17. Spacing Unit dedicated to this well 20 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1419'	19. Proposed Depth 6378'	20. BLM/BIA Bond No. on file UTB000192
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5786' GL	22. Approximate date work will start* 4th Quarter 2006	23. Estimated duration Approximately seven (7) days from spud to rig release.

**24. Attachments**

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 7/25/06
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) Terry Kewick	Date 5-11-2007
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

**NOTICE OF APPROVAL**

**CONDITIONS OF APPROVAL ATTACHED**

Accepted by the  
Utah Division of  
Oil, Gas and Mining

**FOR RECORD**

**RECEIVED**

**MAY 16 2007**

DIV. OF OIL, GAS & MINING

07BMA46.3/A



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East VERNAL, UT 84078 (435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

**Company:** Newfield Production Company  
**Well No:** Wells Draw Federal M-5-9-16  
**API No:** 43-013-33249

**Location:** SENW, Sec 5, T9S, R16E  
**Lease No:** UTU-30096  
**Agreement:** Wells Draw Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	435-781-4490	435-828-4470
Petroleum Engineer:	Michael Lee	435-781-4432	435-828-7875
Petroleum Engineer:	James Ashley	435-781-4470	435-828-7874
Petroleum Engineer:	Ryan Angus	435-781-4430	435-828-7368
Supervisory Petroleum Technician:	Jamie Sparger	435-781-4502	435-828-3913
NRS/Enviro Scientist:	Paul Buhler	435-781-4475	435-828-4029
NRS/Enviro Scientist:	Karl Wright	435-781-4484	
NRS/Enviro Scientist:	Holly Villa	435-781-4404	
NRS/Enviro Scientist:	Chuck MacDonald	435-781-4441	
NRS/Enviro Scientist:	Jannice Cutler	435-781-3400	
NRS/Enviro Scientist:	Michael Cutler	435-781-3401	
NRS/Enviro Scientist:	Anna Figueroa	435-781-3407	
NRS/Enviro Scientist:	Verlyn Pindell	435-781-3402	
NRS/Enviro Scientist:	Darren Williams	435-781-4447	
NRS/Enviro Scientist:	Nathan Packer	435-781-3405	

Fax: 435-781-4410

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify NRS/Enviro Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify NRS/Enviro Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supervisory Petroleum Technician)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings
BOP & Related Equipment Tests (Notify Supervisory Petroleum Technician)	-	Twenty-Four (24) hours prior to initiating pressure tests
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days



**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**General Surface COAs**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer AO. A report will be prepared by a BLM permitted paleontologist and submitted to the AO at the completion of surface disturbing activities.

**Specific Surface COAs**

- Adhere to Executive Order 5327 of April 15, 1930, stipulations for lands in oil shale withdrawal.
- Lands in this lease have been identified as containing Golden Eagle, Ferruginous Hawk, and Sage Grouse habitats. Modifications to the Surface Use Plan of Operations may be required in order to protect the Golden Eagle, Ferruginous Hawk, and Sage Grouse habitats from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.
- Timing Limitations (for construction and drilling):
  - Feb 1 through July 15** – in order to protect Golden Eagle nesting season,
  - March 1 through July 15** – in order to protect Ferruginous Hawk nesting season,
  - March 1 through June 30** – to protect Sage Grouse lek.
- This well is being approved in accordance with Washington Instruction Memorandum 2005-247 and Section 390 (Category 3) of the Energy Policy Act which establishes statutory categorical exclusions (CX) under the National Environmental Policy Act (NEPA). Category 3 states that an oil or gas well can be drilled within a developed field for which an approved land use plan or any environmental document prepared pursuant to NEPA analyzed drilling as a reasonably foreseeable activity, so long as such plan or document was approved within five (5) years prior to the date of spudding the well. This well is covered under the *Final Environmental Impact Statement and Record of Decision Castle Peak and Eightmile Flat Oil and Gas Exploration Project Newfield Rocky Mountains Inc.*, signed August 24, 2005. If the well has not been spudded by August 24, 2010, a new environmental document will have to be prepared prior to the approval of the APD.
- All applicable local, state, and/or federal laws, regulations, and/or statutes will be complied with.
- Right of way (ROW) will not be required.
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment.

If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.

- The access road will be crowned and ditched. Flat-bladed roads are not allowed.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- The reserve pit will be lined with a 12 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- The following seed mix (PLS formula) will be used for interim reclamation (topsoil stockpile, and reserve pit)

Western Wheatgrass (*Pascopyrum smithii*) 6lbs/acre

Galleta Grass (*Hilaria jamesii*) 6lbs/acre

- Rates are set for drill seeding; double the rate if broadcasting.
- Reseeding may be required if initial seeding is not successful.

- The operator will be responsible for treatment and control of invasive and noxious weeds.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be recontoured to natural topology, topsoil shall be respread, and the entire location shall be seeded with a seed mix recommended by the AO (preferably of native origin). Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding should take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.

- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.

## **DOWNHOLE CONDITIONS OF APPROVAL**

### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

- None

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core

data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

# DIVISION OF OIL, GAS AND MINING

## ***SPUDDING INFORMATION***

Name of Company: Newfield Production Company

Well Name: Wells Draw Fed 5-9-16

API No: 43-013-33249 Lease Type: Federal

Section 05 Township 09S Range 16E County Duchesne

Drilling Contractor NDSI Rig # NS#1

### **SPUDDED:**

Date 6-11-07

Time 8:30 AM

How Dry

***Drilling will Commence:*** \_\_\_\_\_

Reported by Alvin Nelson

Telephone # 435-823-7468

Date 6-11-07 Signed RM



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY  
ADDRESS: RT. 3 BOX 3630  
MYTON, UT 84062

OPERATOR ACCT. NO. N2896

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	16175	4301333023	FEDERAL 8-21-9-16	SENE	21	9S	16E	DUCHESNE	6/7/2006	6/14/07
WELL 1 COMMENTS: <i>GRRV</i>											
B	99999	12276	4301333249	WD FEDERAL M-5-9-16	SENW	5	9S	16E	DUCHESNE	6/11/2007	6/14/07
<i>GRRV</i> <i>BHL C of Sec 5</i>											
A	99999	16176	4301333104	FEDERAL 5-20-9-16	SWNW	20	9S	16E	DUCHESNE	6/12/2007	6/14/07
<i>R</i> <i>GRRV</i>											
											2NS
WELL 5 COMMENTS:											
WELL 6 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - 1 new entity for new-well (single well only)
- B - well to existing entity (group or unit well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

RECEIVED

JUN 13 2007

DIV. OF OIL, GAS & MINING

*Jenri Park*  
Signature  
Production Clerk

Jenri Park

June 13, 2007

Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2033 FNL 1816 FWL

SENW Section 5 T9S R16E

5. Lease Serial No.

USA UTU-30096

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

WELLS DRAW UNIT

8. Well Name and No.

WELLS DRAW FEDERAL M-5-9-16

9. API Well No.

4301333249

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Weekly Status Report _____
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 06-17-07. MIRU NDSI rig #2. Set equipment. Pressure test Bop's, Kelly, & TIW to 2,000 psi. Test 8 5/8" csgn to 1,500 psi. Vernal BLM office was notified of test. PU BHA and tag cement @ 278'. Drill out cement & shoe. Continue to drill 7 7/8" hole with fresh water to a depth of 6489'. Lay down drill string, BHA. Open hole log from TD to surface. PU & MU guide shoe 1 jt 5 1/2" J-55 15.5# csgn. Float collar, & 146 jt's J-55 15.5# csgn. Set @ 6452.27'KB. Cement with 325 sks Prem Lite 11 w/ 3% KCL, 10% Gel, 3# sk CSE, 2# sk Kolseal, 1/4# sks Celloflake. Mixed @ 11.0 ppg > 3.43 yld. Followed by 450 sks 50/50 Poz w/ 3% KCL, 2% Gel .05% Static free, 1/4# sk Celloflake. Mixed @ 14.4 ppg > 1.24 yld. Good Returns thru job with 23 bbls cement return to pit. Nipple down BOP's. Drop slips @ 80,000#'s tension. Clean pit's & Release rig @ 5:00 pm on 06-23-07.

RECEIVED

JUN 29 2007

DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and  
correct (Printed/ Typed)

Ray Herrera

Signature

*Ray Herrera*

Title

Drilling Foreman

Date

06/23/2007

THIS SPACE FOR FIELD OFFICE OR STATE OFFICE USE

Approved by \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or  
certify that the applicant holds legal or equitable title to those rights in the subject lease  
which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United  
States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 6452.27

Flt cllr @ 6417.97

LAST CASING 8 5/8" SET # 322.89'

OPERATOR Newfield Production Company

DATUM 12' KB

WELL Wells Draw Federal M-5-9-16

DATUM TO CUT OFF CASING 12'

FIELD/PROSPECT Monument Butte

DATUM TO BRADENHEAD FLANGE \_\_\_\_\_

CONTRACTOR & RIG # NDSI #2

TD DRILLER 6489' Loggers 6486'

HOLE SIZE 7 7/8"

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14
		Flag Joint 4094' (5.90')					
146	5 1/2"	ETC LT & C casing	15.5#	J-55	8rd	A	6416.72
		Float collar					0.6
1	5 1/2"	ETC LT&C csg	15.5#	J-55	8rd	A	22.3
		<b>GUIDE</b> shoe			8rd	A	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			6454.27
TOTAL LENGTH OF STRING		6454.27	147	LESS CUT OFF PIECE			14
LESS NON CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		178.43	4	CASING SET DEPTH			<b>6452.27</b>
TOTAL		<b>6617.45</b>	151	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		6617.45	151				
TIMING		1ST STAGE	2nd STAGE				
BEGIN RUN CSG.		6/23/2007	6:00 AM	GOOD CIRC THRU JOB <u>YES</u>			
CSG. IN HOLE		6/23/2007	9:00 AM	Bbls CMT CIRC TO SURFACE <u>23 BBLS</u>			
BEGIN CIRC		6/23/2007	9:10 AM	RECIPROCATED PIPE FOR <u>THRUSTROKE NA</u>			
BEGIN PUMP CMT		6/23/2007	10:53 AM	DID BACK PRES. VALVE HOLD ? <u>YES</u>			
BEGIN DSPL. CMT		6/23/2007	11:51 AM	BUMPED PLUG TO <u>1900</u> PSI			
PLUG DOWN		6/23/2007	12:20 PM				

CEMENT USED		CEMENT COMPANY- <b>B. J.</b>	
STAGE	# SX	CEMENT TYPE & ADDITIVES	
1	325	Premiite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake	
		mixed @ 11.0 ppg W / 3.49 cf/sk yield	
2	450	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD	
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING	
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.			

COMPANY REPRESENTATIVE Ray Herrera

DATE 6/23/2007

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

USA UTU-30096

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or  
WELLS DRAW UNIT

8. Well Name and No.

WELLS DRAW FEDERAL M-5-9-16

9. API Well No.

4301333249

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

I hereby certify that the foregoing is true and  
correct (Printed/ Typed)

Mandie Crozier

Signature

Title

Regulatory Specialist

Date

10/04/2007

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or  
certify that the applicant holds legal or equitable title to those rights in the subject lease  
which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

RECEIVED

OCT 05 2007

DIV. OF OIL, GAS & MINING

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

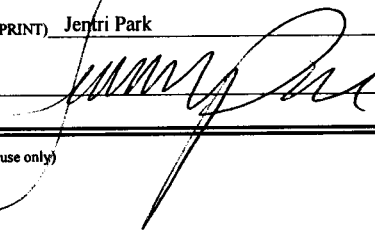
**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-30096
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: WELLS DRAW UNIT
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 2033 FNL 1816 FWL		8. WELL NAME and NUMBER: WELLS DRAW FEDERAL M-5-9-16
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SENW, 5, T9S, R16E		9. API NUMBER: 4301333249
		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
		COUNTY: DUCHESNE
		STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Weekly Status Report
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  10/18/2007			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
The above subject well was completed on 10/03/07, attached is a daily completion status report.

NAME (PLEASE PRINT) <u>Jenri Park</u>	TITLE <u>Production Clerk</u>
SIGNATURE 	DATE <u>10/18/2007</u>
(This space for State use only)	

**RECEIVED**  
**OCT 19 2007**  
DIV. OF OIL, GAS & MINING

**Daily Activity Report**

Format For Sundry

**WLLS DRW M-5-9-16****8/1/2007 To 12/30/2007****9/21/2007 Day: 1****Completion**

Rigless on 9/20/2007 - Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6407' & cement top @ surface'. Perforate stage #1, sds LODC @ 5590-99' w/ 3-1/8" Slick Guns (19 gram, .49"EH, 120°) w/ 4 spf for total of 36 shots. 153 BWTR. SWIFN.

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**9/27/2007 Day: 2****Completion**

Rigless on 9/26/2007 - Stage #1 LODC sds. RU BJ Services. 0 psi on well. Frac LODC sds w/ 34,374#'s of 20/40 sand in 442 bbls of Lightning 17 fluid. Broke @ 3022 psi. Treated w/ ave pressure of 2165 psi w/ ave rate of 24.7 BPM. ISIP 2250 psi. Leave pressure on well. 595 BWTR. Stage #2, A1 sds. RU The Perforators, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 12' perf gun. Set plug @ 5530'. Perforate A1 sds @ 5437-49' w/ 3-1/8" Slick Guns (.49"EH, 19 gram, 120°) w/ 4 spf for total of 48 shots. RU BJ Services. 1085 psi on well. Frac A1 sds w/ 29,486#'s of 20/40 sand in 396 bbls of Lightning 17 fluid. Broke @ 1284 psi. Treated w/ ave pressure of 1979 psi w/ ave rate of 24.7 BPM. ISIP 2375 psi. Leave pressure on well. 991 BWTR. Stage #3, B2 sds. RU The Perforators, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 13' perf gun. Set plug @ 5380'. Perforate B2 sds @ 5287-5300' w/ 3-1/8" Slick Guns (.49"EH, 19 gram, 120°) w/ 4 spf for total of 52 shots. RU BJ Services. 1205 psi on well. Frac B2 sds w/ 85,338#'s of 20/40 sand in 665 bbls of Lightning 17 fluid. Broke @ 1859 psi. Treated w/ ave pressure of 1878 psi w/ ave rate of 24.8 BPM. ISIP 2080 psi. Leave pressure on well. 1656 BWTR. Stage #4, C sds. RU The Perforators, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 7' perf gun. Set plug @ 5180'. Perforate C sds @ 5154-61' w/ 3-1/8" Slick Guns (.49"EH, 19 gram, 120°) w/ 4 spf for total of 28 shots. RU BJ Services. 130 psi on well. Perfs would not break. RU WL truck & dump bail acid on perfs. RU BJ Services. 1510 psi on well. Perfs would not break. RU WL truck & dump bail acid on perfs. RU BJ services. 1420 psi on well. Frac C sds w/ 14,758#'s of 20/40 sand in 281 bbls of Lightning 17 fluid. Broke @ 4050 psi. Treated w/ ave pressure of 2474 psi w/ ave rate of 24.8 BPM. ISIP 2200 psi. Leave pressure on well. 1937 BWTR. Stage #5, D2 sds. RU The Perforators, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 8' perf gun. Set plug @ 5120'. Perforate D2 sds @ 5059-67' w/ 3-1/8" Slick Guns (.49"EH, 19 gram, 120°) w/ 4 spf for total of 32 shots. RU BJ Services. 1572 psi on well. Frac D2 sds w/ 44,707#'s of 20/40 sand in 439 bbls of Lightning 17 fluid. Broke @ 2622 psi. Treated w/ ave pressure of 1973 psi w/ ave rate of 24.7 BPM. ISIP 2045 psi. Leave pressure on well. 2376 BWTR. Stage #6, D1 sds. RU The Perforators, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 8', 9' perf guns. Set plug @ 5030'. Perforate D1 sds @ 4984-92' & 4997-5006' w/ 3-1/8" Slick Guns (.49"EH, 19 gram, 120°) w/ 4 spf for total of 68 shots. RU BJ Services. 1318 psi on well. Frac D1 sds w/ 120,191#'s of 20/40 sand in 868 bbls of Lightning 17 fluid. Broke @ 1904 psi. Treated w/ ave pressure of 2233 psi w/ ave rate of 24.8 BPM. ISIP 2300 psi. Leave pressure on well. 3244 BWTR. SWIFN.

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**9/28/2007 Day: 3****Completion**

Rigless on 9/27/2007 - Stage #7, PB8 sds. RU The Perforators, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 8' perf gun. Set plug @ 4810'. Perforate PB8 sds @ 4705-13' w/ 3-1/8" Slick Guns (.49"EH, 19 gram, 120°) w/ 4 spf for total of 32 shots. RU BJ Services. 631 psi on well. Frac PB8 sds w/ 24,177#'s of 20/40 sand in 379 bbls of Lightning 17 fluid. Broke @ 1839 psi. Treated w/ ave pressure of 2192 psi w/ ave rate of 24.7 BPM. ISIP 2450 psi. Leave pressure on well. 3623 BWTR. Stage #8, GB6 sds. RU The Perforators, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 12' perf gun. Set plug @ 4640'. Perforate GB6 sds @ 4521-33' w/ 3-1/8" Slick Guns (.49"EH, 19 gram, 120°) w/ 4 spf for total of 48 shots. RU BJ Services. 2020 psi on well. Frac GB6 sds w/ 109,705#'s of 20/40 sand in 801 bbls of Lightning 17 fluid. Broke @ 3844 psi. Treated w/ ave pressure of 1866 psi w/ ave rate of 24.7 BPM. ISIP 2030 psi. Leave pressure on well. 4424 BWTR. Stage #9, GB2 sds. RU The Perforators, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 9' perf gun. Set plug @ 4490'. Perforate GB2 sds @ 4433-42' w/ 3-1/8" Slick Guns (.49"EH, 19 gram, 120°) w/ 4 spf for total of 36 shots. RU BJ Services. 1832 psi on well. Frac GB2 sds w/ 34,269#'s of 20/40 sand in 351 bbls of Lightning 17 fluid. Broke @ 1987 psi. Treated w/ ave pressure of 1943 psi w/ ave rate of 24.8 BPM. ISIP 1975 psi. Open well to pit for immediate flowback @ 1 bpm. Well flowed for 8.5 hrs. Recovered 250 bbls.

---

**9/29/2007 Day: 4**

**Completion**

Western #4 on 9/28/2007 - MIRU Western #4. Bleed off well. ND Cameron BOP & 5m frac head. NU 3m production head & Schafer BOP. RIH w/ 4 3/4" chomp bit, bit sub & new 2 7/8" tbg. from pipe rack (tallying & drifting tbg.) to 2865. SWIFN.

---

**10/2/2007 Day: 5**

**Completion**

Western #4 on 10/1/2007 - Cont. RIH w/ tbg. Tag sand bridge @ 3118'. Circulate out 69' of sand. Cont. RIH w/ tbg. Tag sand bridge @ 4116'. Circulate out 30' of sand. Cont. RIH w/ tbg. Tag @ 4445'. RU powerswivel & pump. C/O to CBP @ 4490'. DU CBP in 12 min. Cont. RIH w/ tbg. Tag @ 4610'. C/O to CBP @ 4640'. DU CBP in 15 min. Cont. RIH w/ tbg. Tag @ 4760'. C/O to CBP @ 4810'. DU CBP in 16 min. Cont. RIH w/ tbg. Tag @ 5006'. C/O to CBP @ 5030'. DU CBP in 14 min. Cont. RIH w/ tbg. Tag CBP @ 5120'. DU CBP in 35 min. Cont. RIH w/ tbg. Tag @ 5170'. C/O to CBP @ 5180'. DU CBP in 1 hr. Circulate well clean. SWIFN.

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**10/3/2007 Day: 6**

**Completion**

Western #4 on 10/2/2007 - Bleed off well. Circulate well clean. Cont. RIH w/ tbg. Tag @ 5201'. C/O to CBP @ 5380'. DU CBP in 25 min. Cont. RIH w/ tbg. Tag @ 5515'. C/O to CBP @ 5530'. DU CBP in 1 hr. Cont. RIH w/ tbg. Tag @ 6332'. C/O to PBTD @ 6429'. Circulate well clean. Pull up to 6308'. RIH w/ swab. SFL @ surface. Made 3 runs. Well started flowing. Well flowed for 2 hrs @ 68 bph. SWIFN @ 5:30 p.m.

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**10/4/2007 Day: 7**

**Completion**

Western #4 on 10/3/2007 - Bleed off well. Circulate well clean. RIH w/ tbg. Tag PBTD @ 6429' (no new fill). Circulate well clean. POOH w/ tbg. LD BHA. RIH w/ 2 7/8" notched collar, 2 jts 2 7/8" tbg., PSN, 1 jt. 2 7/8" tbg., 5 1/2" TAC, 178 jts 2 7/8" tbg. ND BOP. Set TAC @ 5568.73' w/ 16,000# tension. NU wellhead. X-over for tbg. Flush tbg. w/ 60 bbls water. RIH w/ CDI 2 1/2" x 1 3/4" x 17' x 20' RHAC pump, 4- 1 1/2" weight bars, 219- 7/8" guided rods (8 guides per rod), 1- 8', 4', 2' x 7/8" pony subs, 1 1/2" x 26' polished rod. Seat pump. RU pumping unit. Hang off

rods. Pump well to 800 psi w/ unit. Adjust tag. RD. Put well on production @ 6:00 p.m. 144" stroke length, 6 spm. Final report.

**Pertinent Files: Go to File List**



(See other in-  
structions on  
reverse side)

OMB NO. 1004-0137

Expires: February 28, 1995

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.

UTU-30096

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
NA

7. UNIT AGREEMENT NAME

Wells Draw Federal

8. FARM OR LEASE NAME, WELL NO.

Wells Draw Federal M-5-9-16

9. WELL NO.

43-013-33249

10. FIELD AND POOL OR WILDCAT

Monument Butte

11. SEC., T., R., M., OR BLOCK AND SURVEY  
OR AREA

Sec. 5, T9S, R16E

12. COUNTY OR PARISH

Duchesne

13. STATE

UT

## 1a. TYPE OF WORK

OIL  
WELLGAS  
WELL

DRY



Other

## 1b. TYPE OF WELL

NEW  
WELLWORK  
OVER

DEEPEN

PLUG  
BACKDIFF  
RESVR.

Other

## 2. NAME OF OPERATOR

Newfield Exploration Company

## 3. ADDRESS AND TELEPHONE NO.

1401 17th St. Suite 1000 Denver, CO 80202

## 4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*

At Surface 2033' FNL &amp; 1816' FWL (SE/NW) Sec. 5, T9S, R16E

At top prod. Interval reported below

At total depth 2538 FSL 2451 FEL

14. API NO.

43-013-33249

DATE ISSUED

08/14/06

12. COUNTY OR PARISH

Duchesne

13. STATE

UT

## 15. DATE SPUDDED

06/11/07

## 16. DATE T.D. REACHED

06/22/07

## 17. DATE COMPL. (Ready to prod.)

10/03/07

## 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

5786' GL

## 19. ELEV. CASINGHEAD

5798' KB

## 20. TOTAL DEPTH, MD &amp; TVD

6489', 6327'

## 21. PLUG BACK T.D., MD &amp; TVD

6429', 6327'

22. IF MULTIPLE COMPL.,  
HOW MANY\*23. INTERVALS  
DRILLED BY

-----&gt;

## ROTARY TOOLS

X

## CABLE TOOLS

## 24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*

Green River 4433'-5599'

25. WAS DIRECTIONAL  
SURVEY MADE

No YES

## 26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log

## 27. WAS WELL CORED

No

## 28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	323'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	6452'	7-7/8"	325 sx Premilite II and 450 sx 50/50 Poz	

## 29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @	TA @
						5567'	5569'

## 31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(LODC) 5590'-5599'	.49"	4/36	5590'-5599'	Frac w/ 34,374# 20/40 sand in 442 bbls fluid
(A1) 5437'-5449'	.49"	4/48	5437'-5449'	Frac w/ 29,486# 20/40 sand in 396 bbls fluid
(B2) 5287'-5300'	.49"	4/52	5287'-5300'	Frac w/ 85,338# 20/40 sand in 665 bbls fluid
(C) 5154'-5161'	.49"	4/28	5154'-5161'	Frac w/ 14,758# 20/40 sand in 281 bbls fluid
(D2) 5059'-5067'	.49"	4/32	5059'-5067'	Frac w/ 44,707# 20/40 sand in 439 bbls fluid
(D1) 4984'-4992, 4997'-5006'	.49"	4/68	4984'-5006'	Frac w/ 120,191# 20/40 sand in 868 bbls fluid
(PB8) 4705'-4713'	.49"	4/32	4705'-4713'	Frac w/ 27,177# 20/40 sand in 379 bbls fluid
(GB6) 4521'-4533'	.49"	4/48	4521'-4533'	Frac w/ 109,705# 20/40 sand in 801 bbls fluid
(GB2) 4433'-4442'	.49"	4/36	4433'-4442'	Frac w/ 34,269# 20/40 sand in 351 bbls fluid

## 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DATE FIRST PRODUCTION 10/03/07		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) 2-1/2" x 1-3/4" x 17' x 20' RHAC SM Plunger Pump					WELL STATUS (Producing or shut-in) PRODUCING	
DATE OF TEST 30 day ave	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD ----->	OIL--BBL. 225	GAS--MCF. 118	WATER--BBL. 47		GAS-OIL RATIO 524
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE ----->	OIL--BBL.	GAS--MCF.	WATER--BBL.		OIL--BBL. GAS--MCF. WATER--BBL.	

RECEIVED

## 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold &amp; Used for Fuel

TEST WITNESSED BY

OCT 30 2007

## 35. LIST OF ATTACHMENTS

DIV. OF OIL, GAS &amp; MINING

## 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Jentri Park

TITLE

Production Clerk

DATE

10/25/2007

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);	38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	<div>NAME</div> <div>MEAS. DEPTH</div> <div>TOP</div> <div>TRUE VERT. DEPTH</div>
			Well Name Wells Draw Federal M-5-9-16	Garden Gulch Mkr Garden Gulch 1 Garden Gulch 2 Point 3 Mkr X Mkr Y-Mkr Douglas Creek Mkr BiCarbonate Mkr B Limestone Mkr Castle Peak Basal Carbonate Wastach Total Depth (LOGGERS)
				3931' 4158' 4270' 4550' 4815' 4850' 4964' 5212' 5334' 5879' 6326' 6450' 6486'



**Scientific  
Drilling**

## Directional Survey Certification

7327 West Barton Road  
Casper, WY 82604  
(307)-472-6621 Fax (307) 472-5439

RE: _____	Newfield Exploration Co.	Operator
_____	Wells Draw M-5-9-16	Well Name & No.
_____	Duchesne County, UT	County & State
_____	42DEF0706500	SDI Job No.

I, Julie Cruse, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 396 feet to a measured depth of 6490 feet is true and correct as determined from all available records.

Julie Cruse

Signature

Rockies Region Engineer

Title

Scientific Drilling International

Company

State of : Wyoming }

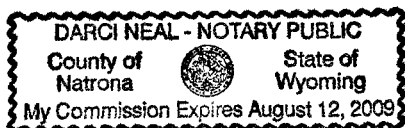
County of : Natrona } ss

On this 12<sup>th</sup> day of July, 2007, before me personally appeared Julie Cruse to me known as the person described in and who executed the foregoing instrument and acknowledged that (s)he executed the same as his/her free act and deed.

Seal

Darci Neal  
Notary Public

Aug 12, 2009  
My Commission Expires

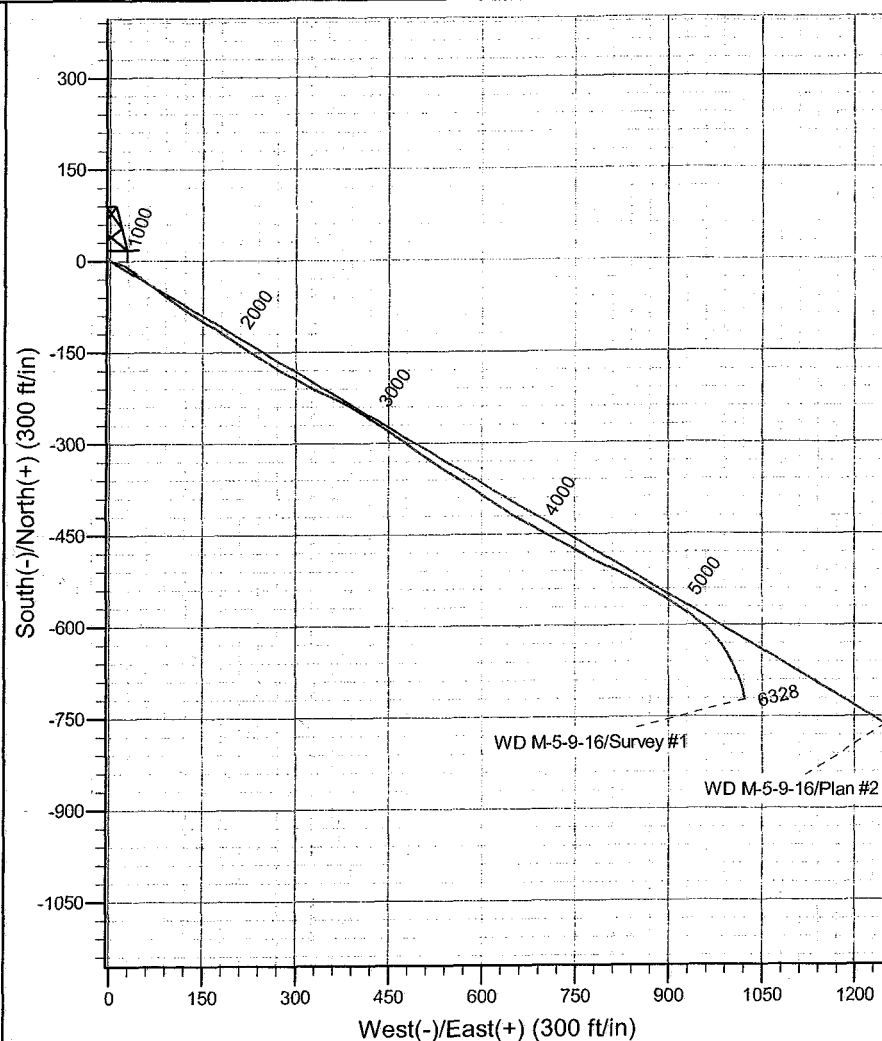
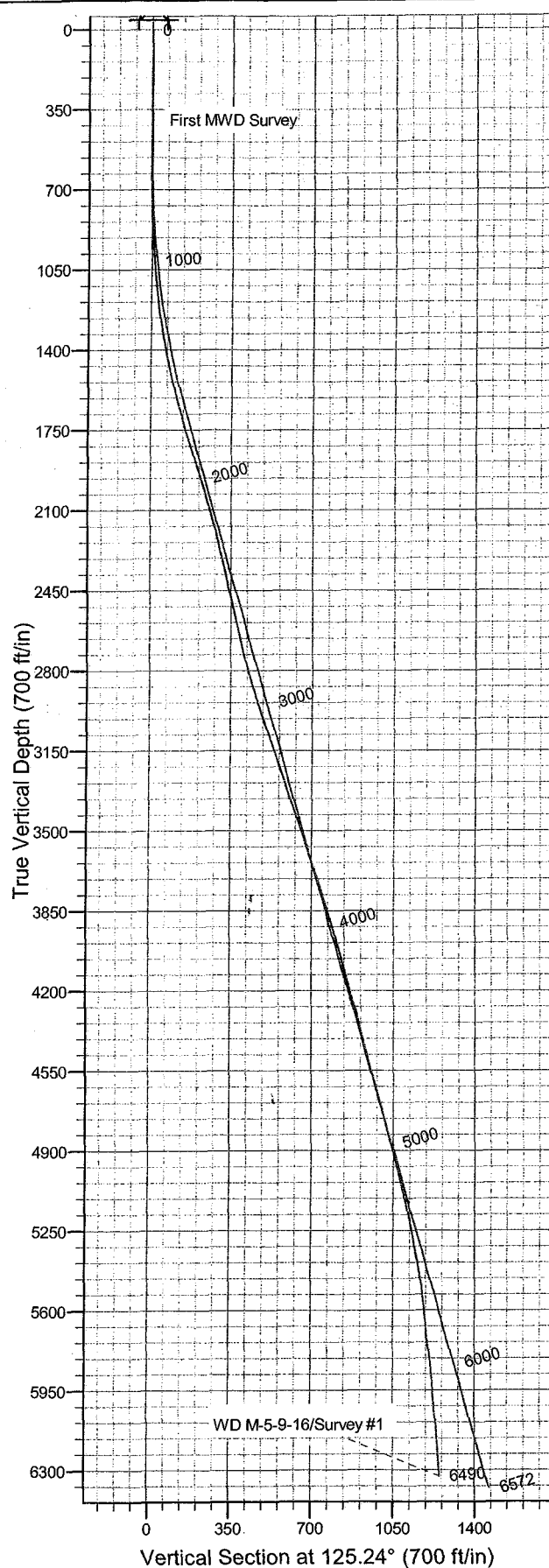




**Scientific Drilling**  
Rocky Mountain Operations

Project: Duchesne County, UT  
Site: Wells Draw M-5-9-16  
Well: WD M-5-9-16  
Wellbore: OH  
Design: OH

**Newfield Exploration Co.**



**WELL DETAILS: WD M-5-9-16**

+N/-S	+E/-W	Ground Level:	GL 5786' & RKB 12' @ 5798.00ft		
		Northing	Easting	Latitude	Longitude
0.00	0.00	7194045.38	2019302.81	40° 3' 41.780 N	110° 8' 46.470 W

**REFERENCE INFORMATION**

Co-ordinate (N/E) Reference: Well WD M-5-9-16, True North  
Vertical (TVD) Reference: GL 5786' & RKB 12' @ 5798.00ft  
Section (VS) Reference: Slot - (0.00N, 0.00E)  
Measured Depth Reference: GL 5786' & RKB 12' @ 5798.00ft  
Calculation Method: Minimum Curvature  
Local North: True  
Location: Sec. 5 T9S R16E

**PROJECT DETAILS: Duchesne County, UT**

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Utah Central Zone

**Survey: Survey #1 (WD M-5-9-16/OH)**

Created By: Julie Cruse Date: 2007-07-11

# **Newfield Exploration Co.**

**Duchesne County, UT**

**Wells Draw M-5-9-16**

**WD M-5-9-16**

**OH**

**Survey: Survey #1**

## **Standard Survey Report**

**11 July, 2007**

# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** Wells Draw M-5-9-16  
**Well:** WD M-5-9-16  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well WD M-5-9-16  
**TVD Reference:** GL 5786' & RKB 12' @ 5798.00ft  
**MD Reference:** GL 5786' & RKB 12' @ 5798.00ft  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** MultiUserEDM

<b>Project</b>	Duchesne County, UT		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

<b>Site</b>	Wells Draw M-5-9-16, Sec. 5 T9S R16E				
<b>Site Position:</b>		<b>Northing:</b>	7,194,045.38 ft	<b>Latitude:</b>	40° 3' 41.780 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,019,302.81 ft	<b>Longitude:</b>	110° 8' 46.470 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	0.000 in	<b>Grid Convergence:</b>	0.87 °

<b>Well</b>	WD M-5-9-16, SHL: 2033' FNL, 1816' FWL					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	7,194,045.38 ft	<b>Latitude:</b>	40° 3' 41.780 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,019,302.81 ft	<b>Longitude:</b>	110° 8' 46.470 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,786.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	2007-06-12	11.85	65.90	52,682

<b>Design</b>	OH				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	125.24	

<b>Survey Program</b>	<b>Date</b>	2007-07-11		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
396.00	6,490.00	Survey #1 (OH)	MWD	MWD - Standard

<b>Survey</b>									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
396.00	0.87	344.74	395.98	2.90	-0.79	-2.32	0.22	0.22	0.00
<b>First MWD Survey</b>									
427.00	0.88	341.14	426.98	3.35	-0.93	-2.69	0.18	0.03	-11.61
457.00	0.62	338.05	456.98	3.72	-1.07	-3.02	0.88	-0.87	-10.30
488.00	0.60	337.12	487.98	4.03	-1.19	-3.30	0.07	-0.06	-3.00
519.00	0.24	309.06	518.98	4.22	-1.30	-3.50	1.30	-1.16	-90.52
550.00	0.30	258.62	549.98	4.24	-1.43	-3.62	0.76	0.19	-162.71
580.00	0.27	233.29	579.98	4.18	-1.57	-3.70	0.43	-0.10	-84.43
611.00	0.43	182.42	610.97	4.02	-1.63	-3.65	1.08	0.52	-164.10
642.00	0.87	163.36	641.97	3.68	-1.57	-3.41	1.56	1.42	-61.48
673.00	0.82	159.60	672.97	3.25	-1.42	-3.04	0.24	-0.16	-12.13
703.00	1.01	138.07	702.97	2.85	-1.17	-2.60	1.30	0.63	-71.77

# Scientific Drilling

## Survey Report

Company: Newfield Exploration Co.  
Project: Duchesne County, UT  
Site: Wells Draw M-5-9-16  
Well: WD M-5-9-16  
Wellbore: OH  
Design: OH

Local Co-ordinate Reference: Well WD M-5-9-16  
TVD Reference: GL 5786' & RKB 12' @ 5798.00ft  
MD Reference: GL 5786' & RKB 12' @ 5798.00ft  
North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: MultiUserEDM

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
734.00	1.38	137.71	733.96	2.37	-0.74	-1.97	1.19	1.19	-1.16
765.00	1.71	133.71	764.95	1.78	-0.15	-1.15	1.12	1.06	-12.90
796.00	1.98	126.15	795.93	1.14	0.61	-0.16	1.17	0.87	-24.39
826.00	2.46	119.44	825.91	0.52	1.59	1.00	1.82	1.60	-22.37
857.00	2.60	114.32	856.88	-0.10	2.81	2.35	0.86	0.45	-16.52
888.00	2.99	117.46	887.84	-0.76	4.17	3.85	1.35	1.26	10.13
920.00	3.32	108.40	919.79	-1.44	5.79	5.56	1.87	1.03	-28.31
952.00	3.91	106.02	951.73	-2.03	7.72	7.48	1.90	1.84	-7.44
983.00	4.39	110.41	982.65	-2.74	9.85	9.62	1.86	1.55	14.16
1,014.00	4.60	107.37	1,013.55	-3.52	12.14	11.95	1.02	0.68	-9.81
1,045.00	4.83	109.14	1,044.45	-4.32	14.56	14.39	0.88	0.74	5.71
1,076.00	5.62	109.53	1,075.32	-5.26	17.23	17.10	2.55	2.55	1.26
1,108.00	5.35	115.83	1,107.17	-6.43	20.05	20.08	2.06	-0.84	19.69
1,139.00	5.72	117.51	1,138.03	-7.77	22.72	23.04	1.30	1.19	5.42
1,171.00	6.54	118.51	1,169.85	-9.38	25.73	26.43	2.58	2.56	3.12
1,202.00	7.37	122.96	1,200.62	-11.30	28.95	30.17	3.19	2.68	14.35
1,235.00	7.99	127.38	1,233.32	-13.85	32.55	34.58	2.59	1.88	13.39
1,266.00	8.76	128.18	1,263.99	-16.62	36.12	39.09	2.51	2.48	2.58
1,295.00	9.46	129.74	1,292.62	-19.50	39.69	43.67	2.56	2.41	5.38
1,327.00	9.77	129.50	1,324.17	-22.91	43.81	49.00	0.98	0.97	-0.75
1,357.00	10.40	128.27	1,353.71	-26.21	47.90	54.24	2.22	2.10	-4.10
1,388.00	10.87	128.46	1,384.18	-29.76	52.38	59.95	1.52	1.52	0.61
1,418.00	11.24	127.02	1,413.62	-33.28	56.93	65.70	1.54	1.23	-4.80
1,450.00	11.68	128.54	1,444.98	-37.18	61.95	72.05	1.67	1.37	4.75
1,481.00	12.28	127.49	1,475.31	-41.14	67.02	78.48	2.06	1.94	-3.39
1,513.00	12.78	127.94	1,506.55	-45.38	72.52	85.41	1.59	1.56	1.41
1,543.00	13.27	128.60	1,535.77	-49.57	77.82	92.16	1.71	1.63	2.20
1,574.00	13.68	128.06	1,565.92	-54.05	83.49	99.38	1.38	1.32	-1.74
1,606.00	14.10	126.25	1,596.99	-58.69	89.61	107.05	1.89	1.31	-5.66
1,637.00	14.77	125.93	1,627.01	-63.24	95.86	114.78	2.18	2.16	-1.03
1,668.00	15.53	125.86	1,656.93	-67.99	102.42	122.88	2.45	2.45	-0.23
1,700.00	16.06	126.77	1,687.72	-73.15	109.44	131.59	1.83	1.66	2.84
1,731.00	16.82	124.45	1,717.45	-78.25	116.57	140.36	3.24	2.45	-7.48
1,763.00	17.21	123.83	1,748.05	-83.51	124.32	149.72	1.34	1.22	-1.94
1,794.00	17.47	122.34	1,777.64	-88.55	132.06	158.96	1.66	0.84	-4.81
1,823.00	17.58	123.04	1,805.30	-93.27	139.41	167.68	0.82	0.38	2.41
1,855.00	17.64	121.78	1,835.80	-98.46	147.59	177.35	1.21	0.19	-3.94
1,885.00	17.61	121.57	1,864.39	-103.23	155.32	186.42	0.23	-0.10	-0.70
1,917.00	17.46	121.29	1,894.90	-108.25	163.54	196.04	0.54	-0.47	-0.87
1,949.00	17.42	122.40	1,925.43	-113.31	171.69	205.61	1.05	-0.12	3.47
2,042.00	16.42	124.00	2,014.41	-128.12	194.34	232.65	1.19	-1.08	1.72
2,133.00	15.24	124.47	2,101.95	-142.09	214.87	257.47	1.30	-1.30	0.52
2,227.00	14.15	124.12	2,192.88	-155.52	234.56	281.31	1.16	-1.16	-0.37
2,320.00	13.72	121.79	2,283.14	-167.71	253.35	303.69	0.76	-0.46	-2.51
2,414.00	13.17	119.86	2,374.56	-178.91	272.11	325.48	0.76	-0.59	-2.05
2,507.00	12.60	119.41	2,465.22	-189.17	290.14	346.12	0.62	-0.61	-0.48
2,600.00	12.80	120.71	2,555.95	-199.41	307.83	366.48	0.38	0.22	1.40
2,694.00	13.17	118.22	2,647.54	-209.79	326.22	387.49	0.71	0.39	-2.65
2,787.00	13.73	115.51	2,737.99	-219.56	345.51	408.88	0.91	0.60	-2.91
2,886.00	16.06	115.51	2,833.66	-230.52	368.48	433.96	2.35	2.35	0.00
2,979.00	18.52	120.15	2,922.46	-243.48	392.87	461.36	3.03	2.65	4.99
3,070.00	18.79	123.60	3,008.68	-258.85	417.57	490.40	1.25	0.30	3.79
3,163.00	18.29	124.60	3,096.85	-275.42	442.06	519.97	0.64	-0.54	1.08
3,258.00	18.64	125.41	3,186.96	-292.68	466.70	550.05	0.46	0.37	0.85

# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** Wells Draw M-5-9-16  
**Well:** WD M-5-9-16  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:**  
**TVD Reference:**  
**MD Reference:**  
**North Reference:**  
**Survey Calculation Method:**  
**Database:**

Well WD M-5-9-16  
 GL 5786' & RKB 12' @ 5798.00ft  
 GL 5786' & RKB 12' @ 5798.00ft  
 True  
 Minimum Curvature  
 MultiUserEDM

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,352.00	18.30	125.36	3,276.12	-309.93	490.98	579.83	0.36	-0.36	-0.05
3,445.00	18.82	124.81	3,364.28	-326.94	515.20	609.44	0.59	0.56	-0.59
3,537.00	18.44	124.64	3,451.46	-343.68	539.36	638.82	0.42	-0.41	-0.18
3,631.00	18.32	124.76	3,540.66	-360.56	563.73	668.46	0.13	-0.13	0.13
3,723.00	18.08	124.05	3,628.06	-376.79	587.44	697.19	0.36	-0.26	-0.77
3,816.00	17.85	123.04	3,716.53	-392.64	611.34	725.86	0.42	-0.25	-1.09
3,910.00	17.17	124.34	3,806.17	-408.33	634.87	754.13	0.83	-0.72	1.38
4,002.00	16.66	121.34	3,894.19	-422.85	657.35	780.87	1.10	-0.55	-3.26
4,097.00	15.66	120.75	3,985.44	-436.49	680.00	807.24	1.07	-1.05	-0.62
4,191.00	15.29	119.97	4,076.03	-449.16	701.64	832.23	0.45	-0.39	-0.83
4,285.00	15.52	116.99	4,166.66	-461.06	723.59	857.02	0.88	0.24	-3.17
4,378.00	14.18	119.59	4,256.55	-472.33	744.58	880.67	1.61	-1.44	2.80
4,477.00	13.74	120.24	4,352.62	-484.24	765.28	904.45	0.47	-0.44	0.66
4,571.00	14.81	117.55	4,443.72	-495.42	785.58	927.47	1.34	1.14	-2.86
4,665.00	15.49	116.01	4,534.45	-506.48	807.51	951.77	0.84	0.72	-1.64
4,758.00	15.19	116.54	4,624.14	-517.37	829.57	976.07	0.36	-0.32	0.57
4,852.00	14.78	118.69	4,714.94	-528.63	851.11	1,000.16	0.73	-0.44	2.29
4,947.00	14.64	121.30	4,806.83	-540.69	872.00	1,024.17	0.71	-0.15	2.75
5,041.00	14.19	123.75	4,897.87	-553.26	891.73	1,047.54	0.81	-0.48	2.61
5,136.00	14.18	124.46	4,989.98	-566.31	911.00	1,070.82	0.18	-0.01	0.75
5,229.00	13.26	126.77	5,080.32	-579.14	928.94	1,092.87	1.15	-0.99	2.48
5,322.00	12.16	128.90	5,171.04	-591.68	945.11	1,113.31	1.29	-1.18	2.29
5,415.00	10.98	130.67	5,262.15	-603.60	959.45	1,131.90	1.32	-1.27	1.90
5,452.87	15.58	121.41	5,300.00	-607.00	994.00	1,162.08	13.34	12.14	-24.45
<b>5300' Target</b>									
5,509.00	10.12	136.74	5,354.56	-615.45	971.90	1,148.90	11.39	-9.72	27.31
5,603.00	8.78	142.34	5,447.29	-627.15	981.94	1,163.86	1.73	-1.43	5.96
5,697.00	7.74	147.69	5,540.31	-638.18	989.71	1,176.56	1.37	-1.11	5.69
5,792.00	7.00	150.35	5,634.53	-648.61	995.99	1,187.72	0.86	-0.78	2.80
5,885.00	6.86	153.70	5,726.85	-658.52	1,001.25	1,197.73	0.46	-0.15	3.60
5,978.00	7.03	155.65	5,819.17	-668.68	1,006.06	1,207.52	0.31	0.18	2.10
6,071.00	6.73	158.75	5,911.50	-678.94	1,010.38	1,216.97	0.51	-0.32	3.33
6,165.00	6.26	161.22	6,004.89	-688.93	1,014.03	1,225.71	0.58	-0.50	2.63
6,259.00	6.13	164.07	6,098.35	-698.61	1,017.06	1,233.77	0.36	-0.14	3.03
6,353.00	6.13	167.10	6,191.81	-708.33	1,019.55	1,241.42	0.34	0.00	3.22
6,446.00	6.14	167.15	6,284.28	-718.02	1,021.77	1,248.82	0.01	0.01	0.05
6,490.00	6.14	167.15	6,328.02	-722.60	1,022.82	1,252.32	0.00	0.00	0.00

Projection to TD



# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** Wells Draw M-5-9-16  
**Well:** WD M-5-9-16  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well WD M-5-9-16  
**TVD Reference:** GL 5786' & RKB 12' @ 5798.00ft  
**MD Reference:** GL 5786' & RKB 12' @ 5798.00ft  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** MultiUserEDM

### Targets

#### Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
BHL	0.00	0.00	6,378.00	-609.00	830.00	7,193,449.01	2,020,141.93	40° 3' 35.761 N	110° 8' 35.794 W
- survey misses by 229.31ft at 6490.00ft MD (6328.02 TVD, -722.60 N, 1022.82 E)									
- Point									
5300' Target	0.00	0.00	5,300.00	-607.00	994.00	7,193,453.50	2,020,305.88	40° 3' 35.781 N	110° 8' 33.685 W
- survey misses by 27.54ft at 5452.87ft MD (5299.01 TVD, -608.61 N, 966.53 E)									
- Circle (radius 75.00)									

### Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
396.00	395.98	2.90	-0.79	First MWD Survey
6,490.00	6,328.02	-722.60	1,022.82	Projection to TD

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_